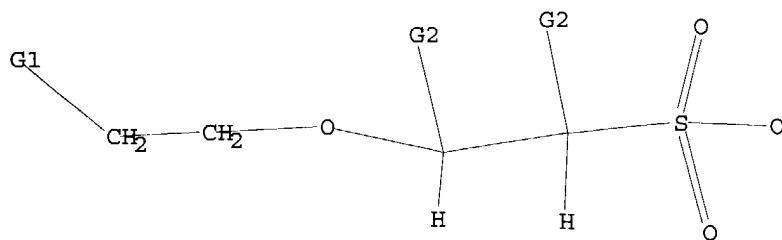


>  
Uploading C:\Program Files\Stnexp\Queries\10690467.str

L5 STRUCTURE UPLOADED

=> d  
L5 HAS NO ANSWERS  
L5 STR



G1 C,O,Cb  
G2 Me,Et,n-Pr,i-Pr,H

Structure attributes must be viewed using STN Express query preparation.

=> s l5  
SAMPLE SEARCH INITIATED 08:17:17 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 1609 TO ITERATE

62.2% PROCESSED 1000 ITERATIONS 14 ANSWERS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

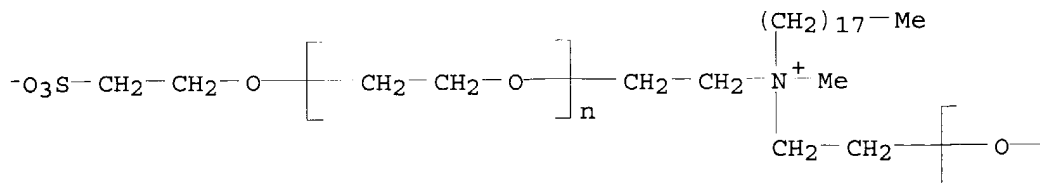
FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 29774 TO 34586  
PROJECTED ANSWERS: 166 TO 734

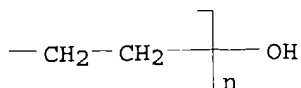
L6 14 SEA SSS SAM L5

=> d scan

L6 14 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
IN Poly(oxy-1,2-ethanediyl),  $\alpha,\alpha'$ -[(methyloctadecyliminio)di-2,1-ethanediyl]bis[ $\omega$ -hydroxy- $\omega'$ -(2-sulfoethoxy)-, inner salt (9CI)  
MF (C2 H4 O)n (C2 H4 O)n C25 H53 N O5 S  
CI PMS

PAGE 1-A





HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s 15 full

FULL SEARCH INITIATED 08:17:29 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 31995 TO ITERATE

100.0% PROCESSED 31995 ITERATIONS  
SEARCH TIME: 00.00.01

480 ANSWERS

L7 480 SEA SSS FUL L5

=> s 17 not pms/ci

1010338 PMS/CI

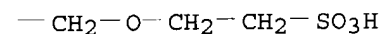
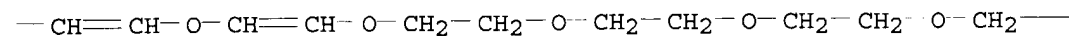
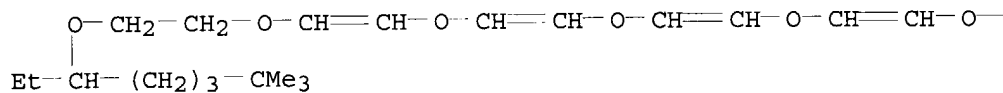
L8 279 L7 NOT PMS/CI

=> d scan

L8 279 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN 3,6,9,12,15,18,21,24,27,30,33,36-Dodecaoxadotetraconta-16,19,22,25,28,31-hexaene-1-sulfonic acid, 37-ethyl-41,41-dimethyl- (9CI)

MF C34 H58 O15 S



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s isethionic acid/cn

L9 1 ISETHIONIC ACID/CN

=> d

L9 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 107-36-8 REGISTRY  
 CN Ethanesulfonic acid, 2-hydroxy- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN (2-Hydroxyethyl)sulfonic acid  
 CN (Hydroxyethyl)sulfonic acid  
 CN 2-Hydroxyethylsulfonic acid  
 CN 2-Hydroxyethanesulfonic acid  
 CN Ethanol sulfonic acid  
 CN **Isethionic acid**  
 CN NSC 60516  
 FS 3D CONCORD  
 DR 51694-03-2  
 MF C2 H6 O4 S  
 CI COM  
 LC STN Files: AGRICOLA, AQUIRE, BEILSTEIN\*, BIOBUSINESS, BIOSIS, BIOTECHNO,  
 CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CSCHM,  
 DDFU, DRUGU, EMBASE, GMELIN\*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK\*,  
 MSDS-OHS, PROMT, PS, RTECS\*, TOXCENTER, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: EINECS\*\*, NDSL\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)

HO-CH<sub>2</sub>-CH<sub>2</sub>-SO<sub>3</sub>H

**\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\***

893 REFERENCES IN FILE CA (1907 TO DATE)  
 407 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 893 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 19 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> d his

(FILE 'HOME' ENTERED AT 07:45:54 ON 18 MAY 2004)

FILE 'REGISTRY' ENTERED AT 07:46:04 ON 18 MAY 2004

L1 8 S BOROXINE  
 L2 0 S BIS AZINYL  
 L3 6 S AZINYL  
 L4 285790 S 1-6  
 L5 STRUCTURE UPLOADED  
 L6 14 S L5  
 L7 480 S L5 FULL  
 L8 279 S L7 NOT PMS/CI  
 L9 1 S ISETHIONIC ACID/CN

=> s l8 not n/els

16361118 N/ELS

L10 229 L8 NOT N/ELS

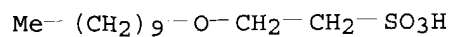
=> s l10 and 4/o

3325856 4/O

L11 46 L10 AND 4/O

=> d scan

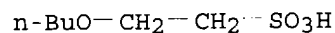
L11 46 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
 IN Ethanesulfonic acid, 2-(decyloxy)-, sodium salt (9CI)  
 MF **C12 H26 O4 S . Na**



● Na

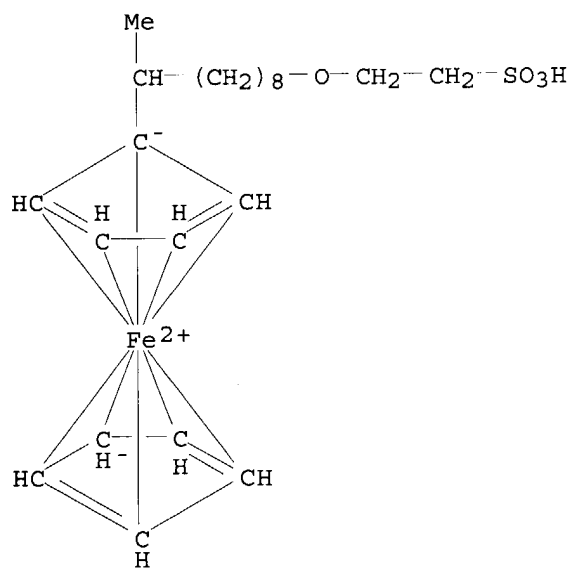
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L11 46 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
 IN Ethanesulfonic acid, 2-butoxy-, sodium salt (9CI)  
 MF C6 H14 O4 S . Na



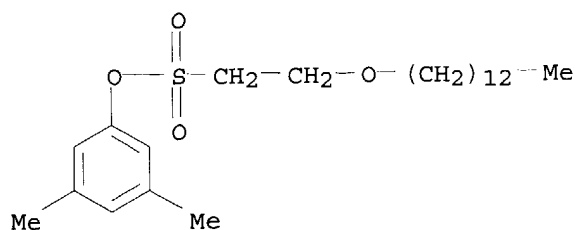
● Na

L11 46 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
 IN Ferrocene, [1-methyl-9-(2-sulfoethoxy)nonyl]-, sodium salt (9CI)  
 MF C22 H34 Fe O4 S . Na  
 CI CCS



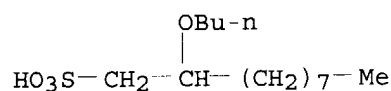
● Na

L11 46 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
 IN Ethanesulfonic acid, 2-(tridecyloxy)-, 3,5-xylyl ester (7CI)  
 MF C23 H40 O4 S



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

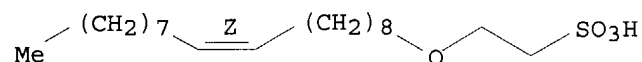
L11 46 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
 IN 1-Decanesulfonic acid, 2-butoxy-, sodium salt (9CI)  
 MF C14 H30 O4 S . Na



● Na

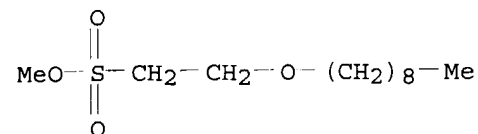
L11 46 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
 IN Ethanesulfonic acid, 2-(9-octadecenyloxy)-, (Z)- (9CI)  
 MF C20 H40 O4 S  
 CI COM

Double bond geometry as shown.



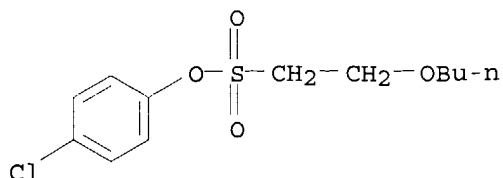
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L11 46 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
 IN Ethanesulfonic acid, 2-(nonyloxy)-, methyl ester (7CI)  
 MF C12 H26 O4 S



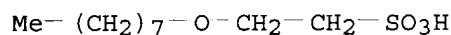
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L11 46 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
IN Ethanesulfonic acid, 2-butoxy-, 4-chlorophenyl ester (9CI)  
MF C12 H17 Cl O4 S

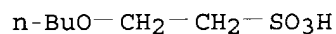


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L11 46 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
IN Ethanesulfonic acid, 2-(octyloxy)-, sodium salt (9CI)  
MF C10 H22 O4 S . Na

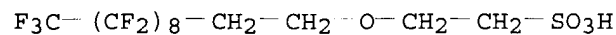


L11 46 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
IN Ethanesulfonic acid, 2-butoxy- (9CI)  
MF C6 H14 O4 S  
CI COM



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L11 46 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
IN Ethanesulfonic acid, 2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-nonadecafluoroundecyl)oxy]-, sodium salt (9CI)  
MF C13 H9 F19 O4 S . Na



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s l11 not x/els  
7410517 X/ELS

L12 41 L11 NOT X/ELS

=> s l11 not fe/els  
724277 FE/ELS

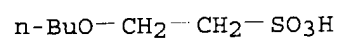
L13 43 L11 NOT FE/ELS

=> s l12 not fe/els  
724277 FE/ELS

L14 38 L12 NOT FE/ELS

=> d scan

L14 38 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
IN Ethanesulfonic acid, 2-(ethylbutoxy)-, sodium salt (8CI)  
MF C8 H18 O4 S . Na  
CI IDS

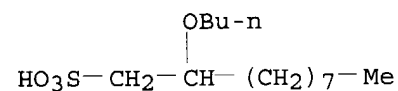


D1-Et

● Na

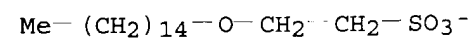
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L14 38 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
IN 1-Decanesulfonic acid, 2-butoxy-, sodium salt (9CI)  
MF C14 H30 O4 S . Na

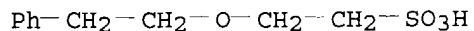


● Na

L14 38 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
IN Ethanesulfonic acid, 2-(pentadecyloxy)-, ion(1-) (9CI)  
MF C17 H35 O4 S  
CI COM

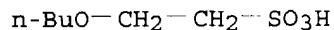


L14 38 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
IN Ethanesulfonic acid, 2-(2-phenylethoxy)- (9CI)  
MF C10 H14 O4 S  
CI COM

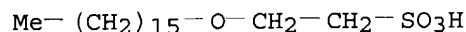


**\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\***

L14 38 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
IN Ethanesulfonic acid, 2-butoxy-, sodium salt (9CI)  
MF **C6 H14 O4 S . Na**

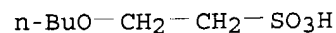


L14 38 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
IN Ethanesulfonic acid, 2-(hexadecyloxy)- (9CI)  
MF **C18 H38 O4 S**  
CI COM



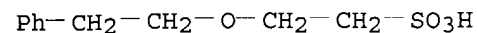
**\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\***

L14 38 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
IN Ethanesulfonic acid, 2-butoxy- (9CI)  
MF **C6 H14 O4 S**  
CI COM



**\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\***

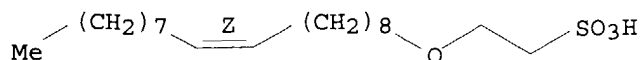
L14 38 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
IN Ethanesulfonic acid, 2-(2-phenylethoxy)-, sodium salt (9CI)  
MF **C10 H14 O4 S . Na**



L14 38 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
IN Ethanesulfonic acid, 2-(9-octadecenyloxy)-, sodium salt, (Z)- (9CI)  
MF **C20 H40 O4 S . Na**

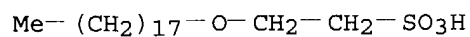


Double bond geometry as shown.



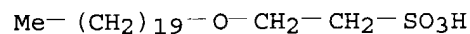
● Na

L14 38 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
IN Ethanesulfonic acid, 2-(octadecyloxy)-, sodium salt (9CI)  
MF C20 H42 O4 S . Na



● Na

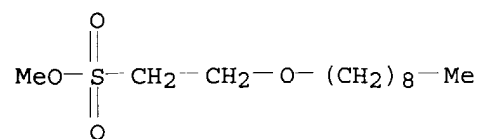
L14 38 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
IN Ethanesulfonic acid, 2-(eicosyloxy)-, sodium salt (9CI)  
MF C22 H46 O4 S . Na



● Na

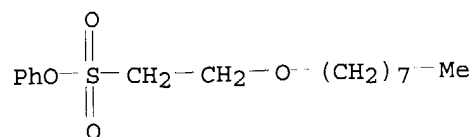
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L14 38 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
IN Ethanesulfonic acid, 2-(nonyloxy)-, methyl ester (7CI)  
MF C12 H26 O4 S



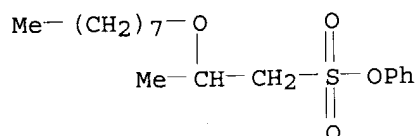
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L14 38 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
IN Ethanesulfonic acid, 2-(octyloxy)-, phenyl ester (7CI)  
MF C16 H26 O4 S



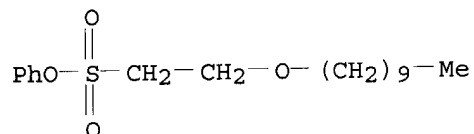
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L14 38 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
 IN 1-Propanesulfonic acid, 2-(octyloxy)-, phenyl ester (7CI)  
 MF C17 H28 O4 S



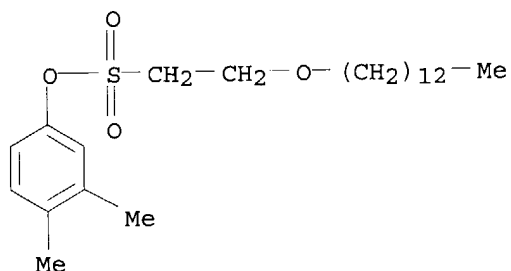
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L14 38 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
 IN Ethanesulfonic acid, 2-(decyloxy)-, phenyl ester (7CI)  
 MF C18 H30 O4 S



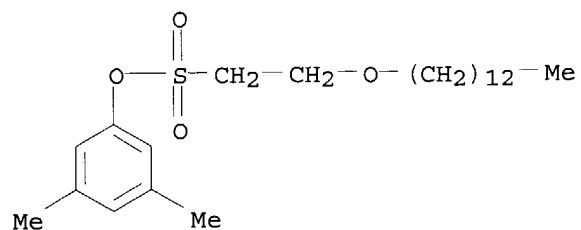
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L14 38 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
 IN Ethanesulfonic acid, 2-(tridecyloxy)-, 3,4-xylyl ester (7CI)  
 MF C23 H40 O4 S



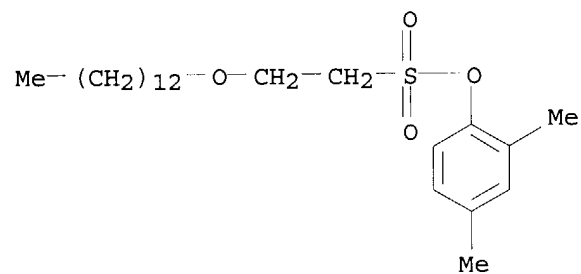
**\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\***

L14 38 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
IN Ethanesulfonic acid, 2-(tridecyloxy)-, 3,5-xylyl ester (7CI)  
MF **C23 H40 O4 S**



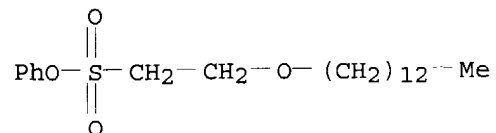
**\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\***

L14 38 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
IN Ethanesulfonic acid, 2-(tridecyloxy)-, 2,4-xylyl ester (7CI)  
MF **C23 H40 O4 S**



**\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\***

L14 38 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
IN Ethanesulfonic acid, 2-(tridecyloxy)-, phenyl ester (7CI)  
MF **C21 H36 O4 S**



=> s 117/prep  
31 L17  
3148620 PREP/RL  
L18 8 L17/PREP  
(L17 (L) PREP/RL)

=> d ibib abs hitstr 1-8

L18 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 1996:304281 CAPLUS  
DOCUMENT NUMBER: 124:320216  
TITLE: Surfactant composition containing alkoxy- and  
alkenyloxyethanesulfonic acid salts  
INVENTOR(S): Subramanyam, Ravi; Gu, Ben  
PATENT ASSIGNEE(S): Colgate-Palmolive Company, USA  
SOURCE: PCT Int. Appl., 11 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9604357	A1	19960215	WO 1995-US9524	19950727
W:	AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT			
RW:	KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
US 5602087	A	19970211	US 1994-284857	19940802
AU 9531519	A1	19960304	AU 1995-31519	19950727
US 5683970	A	19971104	US 1997-796332	19970207
PRIORITY APPLN. INFO.:			US 1994-284857	19940802
			WO 1995-US9524	19950727

OTHER SOURCE(S): MARPAT 124:320216  
AB Cleaners contain ROCH<sub>2</sub>CH<sub>2</sub>SO<sub>3</sub>X (I, R = C<sub>8</sub>-22 alkyl or alkenyl, X = alkali metal, alkaline earth metal, ammonium or substituted ammonium), a soap or addnl. surfactant, and moisture. I is manufacture by reaction of ROH (R = same as above) with BrCH<sub>2</sub>CH<sub>2</sub>SO<sub>3</sub>X (X = same as above) or by reaction of RBr (R = same as above) with HOCH<sub>2</sub>CH<sub>2</sub>SO<sub>3</sub>X (X = same as above) in the presence of a base and are resistant to degradation when exposed to conditions which cause instability to ester bonds.  
IT **20829-85-0P**  
RL: IMF (Industrial manufacture); **PREP (Preparation)**  
(alkoxy- and alkenyloxyethanesulfonic acid salts for surfactants for cleaners)  
RN 20829-85-0 CAPLUS  
CN Ethanesulfonic acid, 2-(dodecyloxy)-, sodium salt (8CI, 9CI) (CA INDEX NAME)

Me<sup>-</sup> (CH<sub>2</sub>)<sub>11</sub>-O-CH<sub>2</sub>-CH<sub>2</sub>-SO<sub>3</sub>H

● Na

L18 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1996:303738 CAPLUS  
 DOCUMENT NUMBER: 124:346549  
 TITLE: Process for the preparation of ether sulfonates  
 INVENTOR(S): Delpy, Klaus; Engelhardt, Fritz; Zerrer, Ralf;  
 Buehring, Dirk  
 PATENT ASSIGNEE(S): Hoechst A.-G., Germany  
 SOURCE: Eur. Pat. Appl., 5 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 699661	A2	19960306	EP 1995-113205	19950823
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
DE 4431056	A1	19960307	DE 1994-4431056	19940901
US 5523471	A	19960604	US 1995-520712	19950829
CA 2157344	AA	19960302	CA 1995-2157344	19950831
JP 08193060	A2	19960730	JP 1995-223948	19950831
PRIORITY APPLN. INFO.: DE 1994-4431056				19940901

OTHER SOURCE(S): MARPAT 124:346549

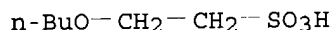
AB The ether sulfonates  $R_1[O[C(R_2)(R_2')C(R_3)(R_3')]x]yOC(R_4)(R_4')C(R_5)(R_5')SO_3$   
 $M$  ( $R_1 = H$ , alkyl, alkenyl, cycloalkyl, aryl, arylalkyl;  $R_2-5' = H$ , alkyl;  
 $M =$  alkali metal,  $NH_4$ , protonated amine;  $x = 1-20$ ;  $y = 0-20$ ) are prepared  
 essentially free of foreign salts by the reaction of  
 $R_1[O[C(R_2)(R_2')C(R_3)(R_3')]x]yOH$  with  $HOC(R_4)(R_4')C(R_5)(R_5')SO_3M$  in the  
 presence of  $MOH$  and neutralization with the acids  
 $R_1[O[C(R_2)(R_2')C(R_3)(R_3')]x]yOC(R_4)(R_4')C(R_5)(R_5')SO_3H$ . Stirring ethylene  
 glycol 5.0,  $HOCH_2CH_2SO_3Na$  1.0, and  $NaOH$  0.1 mol at  $190-195^\circ$  with  
 distillation of  $H_2O$  for 3 h, cooling, adding .apprx.0.1 mol  $HOCH_2CH_2SO_3H$ , and  
 thin-film concentration at  $200^\circ/10$  mbar gave  $HOCH_2CH_2OCH_2CH_2SO_3Na$  with  
 purity 98.2% and foreign salt content 0.3%.

IT 83028-92-6P

RL: IMF (Industrial manufacture); **PREP (Preparation)**  
 (manufacture of, with high purity)

RN 83028-92-6 CAPLUS

CN Ethanesulfonic acid, 2-butoxy-, sodium salt (9CI) (CA INDEX NAME)



● Na

L18 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1995:27386 CAPLUS

DOCUMENT NUMBER: 122:164077

TITLE: Surface and solution properties of short chain alkoxy  
 ethane sulfonates and carboxylates

AUTHOR(S): Nayyar, Neeru; Rao, B. Ramamohan; Nambudiry, M. E. N.;  
 Narayan, K. S.

CORPORATE SOURCE: Hindustan Lever Res. Cent., Bombay, 400 099, India

SOURCE: Journal of Surface Science and Technology (1992),  
 8(4), 459-69

CODEN: JSSTE4; ISSN: 0970-1893

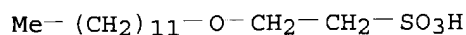
DOCUMENT TYPE: Journal

LANGUAGE: English

AB Some ether sulfonates  $RO(CH_2)_2SO_3Na$  ( $R =$  isononyl, decyl, and dodecyl) and  
 carboxylates  $R'O(CH_2)_2CO_2Na$  ( $R' =$  isononyl and 2-ethylhexyl) were prepared

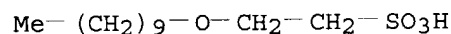
and their properties were studied. X-ray long spacings of the solid samples show that the ethoxy group terminating in the head group may not be present as a linear array but may assume a disordered configuration in the case of the short chain surfactants. However, the configuration appears to be more linear in the case of the C12 analog. The area per mol. also suggests an open packing and this trend is more in carboxylates than in sulfonates. Studies on the lyotropic phase behavior have shown lower Kraft boundaries for carboxylates as compared to sulfonates. The phase sequence is L1/H1/L $\alpha$ /S. In the case of branched chain surfactants a second isotropic phase (L1') has been noticed in between H1 and L $\alpha$ -phase. The temperature of onset of L1' is always higher than that for L $\alpha$  phase.

IT 20829-85-0P, Sodium 2-dodecyloxyethanesulfonate  
 101225-35-8P, Sodium 2-decyloxyethanesulfonate  
 161449-63-4P  
 RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (surfactant; surface solution properties of)  
 RN 20829-85-0 CAPLUS  
 CN Ethanesulfonic acid, 2-(dodecyloxy)-, sodium salt (8CI, 9CI) (CA INDEX NAME)



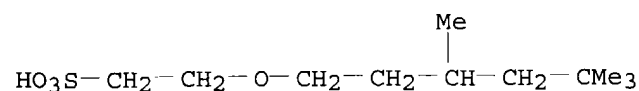
● Na

RN 101225-35-8 CAPLUS  
 CN Ethanesulfonic acid, 2-(decyloxy)-, sodium salt (9CI) (CA INDEX NAME)



● Na

RN 161449-63-4 CAPLUS  
 CN Ethanesulfonic acid, 2-[(3,5,5-trimethylhexyl)oxy]-, sodium salt (9CI)  
 (CA INDEX NAME)



● Na

L18 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1989:442632 CAPLUS  
 DOCUMENT NUMBER: 111:42632  
 TITLE: Surfactant combinations and enhanced oil recovery  
 method employing same  
 INVENTOR(S): Kalpakci, Bayram; Jeans, Yvonne  
 PATENT ASSIGNEE(S): Standard Oil Co., USA  
 SOURCE: U.S., 10 pp.

CODEN: USXXAM  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4811788	A	19890314	US 1986-829431	19860213
PRIORITY APPLN. INFO.:			US 1986-829431	19860213
AB A method of recovering oil from a subterranean formation comprises injection into the formation an aqueous composition containing a surface-active agent of (A) (H13C6)(H17C8)CHCH2(OCH2CH2)2SO3-Na+ and (B) H41C20(OCH2CH2)3SO3-Na+ at 0.02-7:1 B:A mol ratio. This method is especially suitable for use with formations where the surfactants used are exposed to temps. in the range of 15-120° and above, high pressures, high concns. of divalent metal ions and high salinities.				
IT 121594-43-2P				
RL: PREP (Preparation)				
(intermediate, preparation of, for preparation of hexyldecyloxyethoxyethoxyethane sulfonate surfactant, in enhanced petroleum recovery)				
RN 121594-43-2 CAPLUS				
CN Ethanesulfonic acid, 2-(hexadecyloxy)-, sodium salt (9CI) (CA INDEX NAME)				

Me- (CH<sub>2</sub>)<sub>15</sub>-O-CH<sub>2</sub>-CH<sub>2</sub>-SO<sub>3</sub>H

● Na

L18 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 1989:195186 CAPLUS  
DOCUMENT NUMBER: 110:195186  
TITLE: Preparation of sulfoethane derivatives for use as surfactants  
INVENTOR(S): Clauss, Wolfgang; Fell, Bernhard Prof; Hendricks, Guenter; Kurze, Werner; Laemmerzahl, Frank; Wassenberg, Willy  
PATENT ASSIGNEE(S): Raschig G.m.b.H., Fed. Rep. Ger.  
SOURCE: Ger. Offen., 7 pp.  
CODEN: GWXXBX  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3718774	A1	19881215	DE 1987-3718774	19870604
EP 293912	A2	19881207	EP 1988-108912	19880603
EP 293912	A3	19901227		
EP 293912	B1	19950125		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
EP 293913	A1	19881207	EP 1988-108913	19880603
EP 293913	B1	19910911		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
JP 01038057	A2	19890208	JP 1988-138240	19880603
JP 01313458	A2	19891218	JP 1988-138241	19880603
AT 67181	E	19910915	AT 1988-108913	19880603

ES 2066772 T3 19950316 ES 1988-108912 19880603  
 PRIORITY APPLN. INFO.: DE 1987-3718774 19870604  
 EP 1988-108913 19880603

OTHER SOURCE(S): MARPAT 110:195186

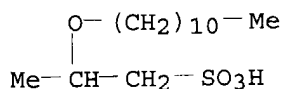
AB Surfactants RCR1R2CR3R4SO3A (R = alkoxy, alkoxy carbonyloxy, substituted amino, etc.; R1 = C1-20 alkyl; R2-R4 = H, C1-20 alkyl; A = H, alkali metal, etc.) are prepared by the reaction of an olefin with SO3 between +20° and -78° to give a 1,2-sultone, followed by treatment with an alc. (or its alkali metal salt) or an amine. Adding propene to C2H4Cl2 containing SO3 at 0-15°, followed by the addition of a solution of undecanol in C2H4Cl2, refluxing, and treatment with NaOH gave Me(CH2)10OCHMeCH2SO3Na.

IT 120487-32-3P

RL: IMF (Industrial manufacture); PREP (Preparation)  
 (preparation of surface-active)

RN 120487-32-3 CAPLUS

CN 1-Propanesulfonic acid, 2-(undecyloxy)-, sodium salt (9CI) (CA INDEX NAME)



● Na

L18 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1984:474769 CAPLUS

DOCUMENT NUMBER: 101:74769

TITLE: Synthesis and performance of linear monoisomeric ethylene oxide sulfonate surfactants

AUTHOR(S): Carmona, I.; Schechter, R. S.; Wade, W. H.;  
 Weerasooriya, U.; Weerasooriya, V.

CORPORATE SOURCE: Dep. Chem., Univ. Texas, Austin, TX, 78712, USA  
 SOURCE: Journal of Dispersion Science and Technology (1983),  
 4(4), 361-70

CODEN: JDTEDS; ISSN: 0193-2691

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The reaction of BrCH2CH2SO3Na [4263-52-9] with Na alcoholates gave 5 surfactants ROCH2CH2SO3Na with R = octadecyl, oleyl, 2-oleyloxyethyl, 2-(2-oleyloxyethoxy)ethyl, and eicosyl, resp. The surfactants produced Winsor III systems (microemulsions) with suitable alkane oil phases and the appropriate salt and cosolvent concns.

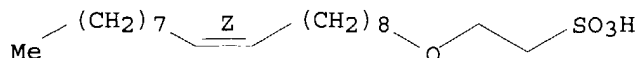
IT 87072-76-2P 91362-46-8P 91362-49-1P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and surfactant properties of)

RN 87072-76-2 CAPLUS

CN Ethanesulfonic acid, 2-(9-octadecenylloxy)-, sodium salt, (Z)- (9CI) (CA INDEX NAME)

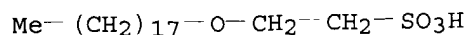
Double bond geometry as shown.



● Na

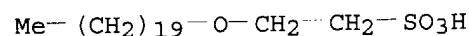


RN 91362-46-8 CAPLUS  
CN Ethanesulfonic acid, 2-(octadecyloxy)-, sodium salt (9CI) (CA INDEX NAME)



● Na

RN 91362-49-1 CAPLUS  
CN Ethanesulfonic acid, 2-(eicosyloxy)-, sodium salt (9CI) (CA INDEX NAME)



● Na

L18 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1983:4257 CAPLUS

DOCUMENT NUMBER: 98:4257

TITLE: Betylates. 3. Preparative nucleophilic substitution by way of [2]-, [3]-, and [4]betylates. Stoichiometric phase transfer and substrate-reagent ion-pair (SRIP) reactions of betylates

AUTHOR(S): King, J. F.; Loosmore, S. M.; Aslam, M.; Lock, J. D.; McGarrity, M. J.

CORPORATE SOURCE: Dep. Chem., Univ. West. Ontario, London, ON, N6A 5B7, Can.

SOURCE: Journal of the American Chemical Society (1982), 104(25), 7108-22  
CODEN: JACSAT; ISSN: 0002-7863

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 98:4257

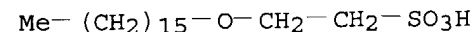
AB The preparation of alkyl [2]-, [3]-, and [4]betylates [(trialkylammonio)alkanesulfonates] and the corresponding norbetylates [(dialkylammonio)alkanesulfonates] is described, and their use as intermediates in the transformation of the hydroxyl group of primary and secondary alcs. is illustrated by examples involving 36 different nucleophiles and 10 different alkyl groups; for a number of products these procedures provide what appears to be the best, or only, access. The reactions generally take place under mild conditions, are easily worked up giving good to excellent yields, and may be carried out in solvents ranging from water to hydrocarbons.

IT 83635-03-4P 83635-04-5P

RL: SPN (Synthetic preparation); **PREP (Preparation)**  
(preparation of)

RN 83635-03-4 CAPLUS

CN Ethanesulfonic acid, 2-(hexadecyloxy)- (9CI) (CA INDEX NAME)



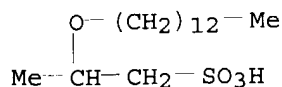
RN 83635-04-5 CAPLUS

CN Ethanesulfonic acid, 2-butoxy- (9CI) (CA INDEX NAME)

n-BuO-CH<sub>2</sub>-CH<sub>2</sub>-SO<sub>3</sub>H

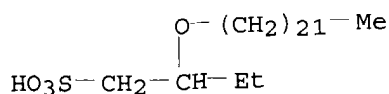
L18 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 1967:432482 CAPLUS  
DOCUMENT NUMBER: 67:32482  
TITLE:  $\beta$ -Alkyl- $\beta'$ -alkoxyisethionates  
INVENTOR(S): Schenck, Leslie M.; Nunn, Leslie G., Jr.  
PATENT ASSIGNEE(S): General Aniline and Film Corp.  
SOURCE: Ger., 4 pp.  
CODEN: GWXXAW  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
	DE 1234708		19670223		
PRIORITY APPLN. INFO.:			US		19601122
GI	For diagram(s), see printed CA Issue.				
AB	Title compds. R(OCHR2CH2)nOCHR1CH2SO3X (I) and II, are surface active agents and are prepared from R1CH:CHSO3X or HOCHR1CH2SO3X, and R(OCHR2CH2)nOH or III in NaOH or KOH at pH 9.7-11.7 and 140-220° for 2-6.5 hrs. At >180° the reaction is carried out in a stainless steel autoclave. Thus, C13H27OH 200, HOCHMeCH2SO3Na (IV) 162, and 50% aqueous NaOH 6 parts was heated 1 hr. at 170°, then 40 min. at 200°. The mixture was separated and cooled to give 20% Na $\beta$ -(tridecyloxy)propanesulfonate (recrystd. from MeOH). Similarly, the following were prepared: Na $\beta$ -(ethylhexyloxy)propanesulfonate, K $\beta$ -ethoxypropanesulfonate, Na $\beta$ -(docosyloxy)butanesulfonate, C18H37(OCH2CH2)10OCHBuCH2SO3Na, and Na $\beta$ -(tridecyloxy)propanesulfonate. A mixture of 204 parts reaction mixture of 1 mole nonylphenol with 4 moles ethylene oxide, 81 parts IV, and 6 parts aqueous 50% NaOH was heated to 180° in 40 min. and maintained 2 hrs. at 180° to give 9% II (R1 = Me, R2, R3 and R4 = H, R5 = C9H19, X = Na, m = 4) which was isolated from unreacted alc. with a strong basic anionic ion exchange resin. Similarly, the following were prepared: EtOCH2CH2OCHMeCH2SO3Na, Na $\beta$ -(nonylphenoxy)ethoxypentanesulfonate. Also prepared were the following II (R1, R2, R3, R4, R5, X, and m given): Me, Me, H, H, H, Na, 1; Me, Et, 2-Me, H, H, Na, 1; Me, H, 2-C9H19, 4-C9H19, H, Na, 20; Me, H, 2-Bu, 4-Bu, 6-Bu, Na, 10; Me, H, H, 4-C8H17, H, Na, 10; Me, H, 2-C12H25, 4-C12H25, 6-C12H25, Na, 10; Me, H, H, 4-C18H37, H, Na, 10.				
IT	<b>14817-49-3P 14897-86-0P</b> RL: SPN (Synthetic preparation); <b>PREP (Preparation)</b> (preparation of)				
RN	14817-49-3 CAPLUS				
CN	1-Propanesulfonic acid, 2-(tridecyloxy)-, sodium salt (8CI) (CA INDEX NAME)				



● Na

RN 14897-86-0 CAPLUS  
CN 1-Butanesulfonic acid, 2-(docosyloxy)-, sodium salt (8CI) (CA INDEX NAME)



● Na

=> file beilstein  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
44.25	317.86

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-5.54	-5.54

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FILE LAST UPDATED ON MARCH 30, 2004

FILE COVERS 1771 TO 2003.  
\*\*\* FILE CONTAINS 8,932,479 SUBSTANCES \*\*\*

>>> PLEASE NOTE: Reaction data and substance data are stored in separate documents and can not be searched together in one query.  
Reaction data for BEILSTEIN compounds may be displayed immediately with the display codes PRE (preparations) and REA (reactions). A substance answer set retrieved after the search for a chemical name, a molecular formula or a structure search for example can be restricted to compounds with available reaction information by concatenation with PRE/FA, REA/FA or more general with RX/FA. The BEILSTEIN Registry Number (BRN) is the link between a BEILSTEIN compound and belonging reactions. For more detailed reaction searches BRNs can be selected from substance answer sets and searched in the next step as reaction partner BRNs - Reactant (RX.RBRN) or Product BRN (RX.PBRN). After a search for reaction details substance documents associated with reactants or products may be retrieved by searching RX.PBRNs or RX.RBRNs as BRNs. <<<

>>> FOR SEARCHING PREPARATIONS SEE HELP PRE <<<

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\* ESTIMATES MAY NOT REFLECT THE ACTUAL COSTS. \*  
\* FOR PRICE INFORMATION SEE HELP COST \*  
\*\*\*\*\*

=> s 15 full  
FULL SEARCH INITIATED 08:33:07 FILE 'BEILSTEIN'  
FULL SCREEN SEARCH COMPLETED - 8089 TO ITERATE

64.5% PROCESSED 5214 ITERATIONS

17 ANSWERS

100.0% PROCESSED 8089 ITERATIONS  
SEARCH TIME: 00.00.32

35 ANSWERS

L19 35 SEA SSS FUL L5

=> s l19 not ester  
2029496 ESTER  
207 ESTERS  
2029618 ESTER  
(ESTER OR ESTERS)

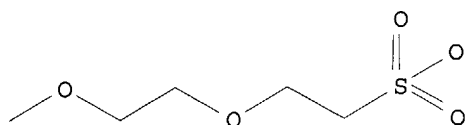
L20 23 L19 NOT ESTER

=> s l20 not phenyl?  
2387060 PHENYL?  
L21 23 L20 NOT PHENYL?

=> d ide

L21 ANSWER 1 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	9322343
Chemical Name (CN):	2-(2-methoxy-ethoxy)-ethanesulfonic acid
Autonom Name (AUN):	2-(2-methoxy-ethoxy)-ethanesulfonic acid
Molec. Formula (MF):	C5 H12 O5 S
Molecular Weight (MW):	184.21
Lawson Number (LN):	2770, 514, 289
Compound Type (CTYPE):	acyclic
Constitution ID (CONSID):	7869215
Tautomer ID (TAUTID):	8761231
Entry Date (DED):	2003/07/25
Update Date (DUPD):	2003/07/25



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
FS	File Segment	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
ED	Entry Date	1
UPD	Update Date	1

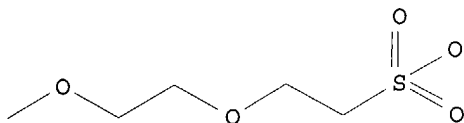
This substance also occurs in Reaction Documents:

Code	Name	Occurrence
=====		
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

=> d ide

L21 ANSWER 1 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	9322343
Chemical Name (CN):	2-(2-methoxy-ethoxy)-ethanesulfonic acid
Autonom Name (AUN):	2-(2-methoxy-ethoxy)-ethanesulfonic acid
Molec. Formula (MF):	C5 H12 O5 S
Molecular Weight (MW):	184.21
Lawson Number (LN):	2770, 514, 289
Compound Type (CTYPE):	acyclic
Constitution ID (CONSID):	7869215
Tautomer ID (TAUTID):	8761231
Entry Date (DED):	2003/07/25
Update Date (DUPD):	2003/07/25



Field Availability:

Code	Name	Occurrence
=====		
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
FS	File Segment	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
ED	Entry Date	1
UPD	Update Date	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
=====		
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

=> d rxpro

L21 ANSWER 1 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Reaction:

RX  
Reaction ID (.ID): 9271907  
Reactant BRN (.RBRN): 8760353  
Reactant (.RCT): 2-(2-methoxy-ethoxy)-ethanethiol  
Product BRN (.PBRN): 9322343  
Product (.PRO): 2-(2-methoxy-ethoxy)-ethanesulfonic acid  
No. of React. Details (.NVAR): 1

Reaction Details:

RX  
Reaction RID (.RID): 9271907.1  
Reaction Classification (.CL): Preparation  
Yield (.YDT): 33 percent (BRN=9322343)  
Reagent (.RGT): 25 percent aq. 2KHSO5\*KHSO4\*K2SO4  
Time (.TIM): 1 hour(s)  
Temperature (.T): 20 Cel  
Reference(s):  
1. Yanic, Cemile; Bredenkamp, Martin W.; Jacobs, Edmund P.; Swart, Pieter,  
Bioorg.Med.Chem.Lett., CODEN: BMCLE8, 13(7), <2003>, 1381 - 1384;  
BABS-6388080

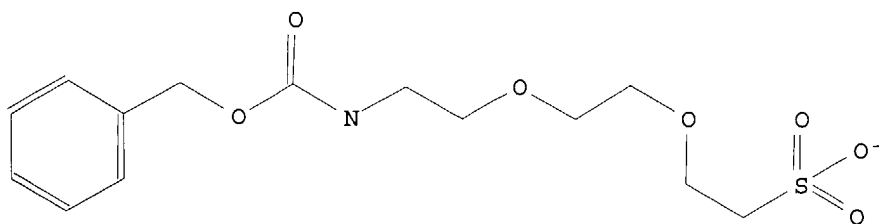
=> d ide 2-4

L21 ANSWER 2 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 7508034  
Chemical Name (CN): sodium; 2-<2-(2-benzyloxycarbonylamino-ethoxy)-ethoxy>-ethanesulfonate  
Autonom Name (AUN): sodium; 2-<2-(2-benzyloxycarbonylamino-ethoxy)-ethoxy>-ethanesulfonate  
Lin. Struct. Formula (LSF): C14H20NO7S(1-)\*Na(1+)  
Fragm. Molec. Formula (FMF): C14 H20 N O7 S , Na  
Molecular Formula (MF): C14 H20 N O7 S . Na  
Molecular Weight (MW): 346.37, 22.99  
Fragment BRN (FBRN): 7495334, 3587169  
Lawson Number (LN): 5228, 3122, 2770, 1762, 514  
Compound Type (CTYPE): isocyclic  
Constitution ID (CONSID): 6473354  
Tautomer ID (TAUTID): 7174295  
Beilstein Citation (BSO): 6-06  
Entry Date (DED): 1996/11/12  
Update Date (DUPD): 1997/08/11

CM 1

FBRN 7495334  
FMF C14 H20 N O7 S



CM 2

FBRN 3587169

FMF Na

Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
LSF	Linearized Structure Formula	1
FMF	Fragment Molecular Formula	2
MF	Molecular Formula	1
FW	Formular Weight	2
FBRN	Fragment BRN	2
LN	Lawson Number	5
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
IR	Infrared Spectrum	1
NMR	Nuclear Magnetic Resonance	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	2
RXREA	Substance is Reaction Reactant	1
RXPRO	Substance is Reaction Product	1

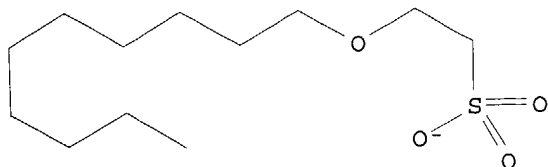
L21 ANSWER 3 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	6549235
Beilstein Pref. RN (BPR):	101225-35-8
CAS Reg. No. (RN):	101225-35-8
Chemical Name (CN):	sodium 2-decoxyethanesulfonate
Lin. Struct. Formula (LSF):	C12H25O4S(1-)*Na(1+)
Fragm. Molec. Formula (FMF):	C12 H25 O4 S , Na
Molecular Formula (MF):	C12 H25 O4 S . Na
Molecular Weight (MW):	265.39, 22.99
Fragment BRN (FBRN):	6507616, 3587169
Lawson Number (LN):	2770, 362
Compound Type (CTYPE):	acyclic
Constitution ID (CONSID):	5704881
Tautomer ID (TAUTID):	6241896
Beilstein Citation (BSO):	6-04
Entry Date (DED):	1994/04/18
Update Date (DUPD):	1994/04/18

CM 1

FBRN 6507616

FMF C12 H25 O4 S



CM 2

FBRN 3587169

FMF Na

Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
BPR	Beilstein Preferred RN	1
RN	CAS Registry Number	1
CN	Chemical Name	1
LSF	Linearized Structure Formula	1
FMF	Fragment Molecular Formula	2
MF	Molecular Formula	1
FW	Formular Weight	2
FBRN	Fragment BRN	2
LN	Lawson Number	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
CMC	Critical Micelle Concentration (MCS)	3
OTHE	Other Thermochemical Data	1

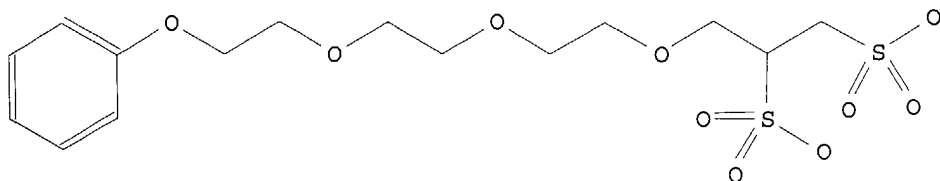
This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

L21 ANSWER 4 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 6540050  
 Chemical Name (CN): 3-<2-<2-(2-phenoxy-ethoxy)-ethoxy>-ethoxy>-propane-1,2-disulfonic acid  
 Autonom Name (AUN): 3-<2-<2-(2-phenoxy-ethoxy)-ethoxy>-ethoxy>-propane-1,2-disulfonic acid  
 Molec. Formula (MF): C15 H24 O10 S2  
 Molecular Weight (MW): 428.47  
 Lawson Number (LN): 5219, 2772, 514  
 Compound Type (CTYPE): isocyclic  
 Constitution ID (CONSID): 5684054  
 Tautomer ID (TAUTID): 6227274  
 Beilstein Citation (BSO): 6-06  
 Entry Date (DED): 1994/04/18  
 Update Date (DUPD): 1994/04/18





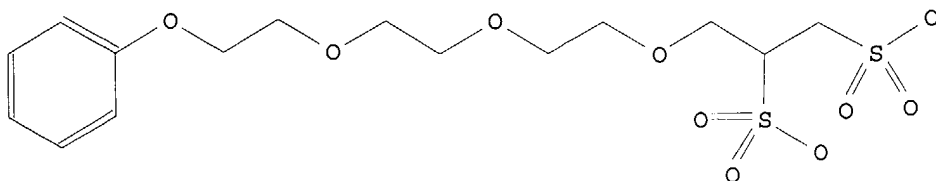
Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
NMR	Nuclear Magnetic Resonance	2

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L21 ANSWER 4 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 6540050  
 Chemical Name (CN): 3-<2-<2-(2-phenoxy-ethoxy)-ethoxy>-ethoxy>-propane-1,2-disulfonic acid  
 Autonom Name (AUN): 3-<2-<2-(2-phenoxy-ethoxy)-ethoxy>-ethoxy>-propane-1,2-disulfonic acid  
 Molec. Formula (MF): C15 H24 O10 S2  
 Molecular Weight (MW): 428.47  
 Lawson Number (LN): 5219, 2772, 514  
 Compound Type (CTYPE): isocyclic  
 Constitution ID (CONSID): 5684054  
 Tautomer ID (TAUTID): 6227274  
 Beilstein Citation (BSO): 6-06  
 Entry Date (DED): 1994/04/18  
 Update Date (DUPD): 1994/04/18



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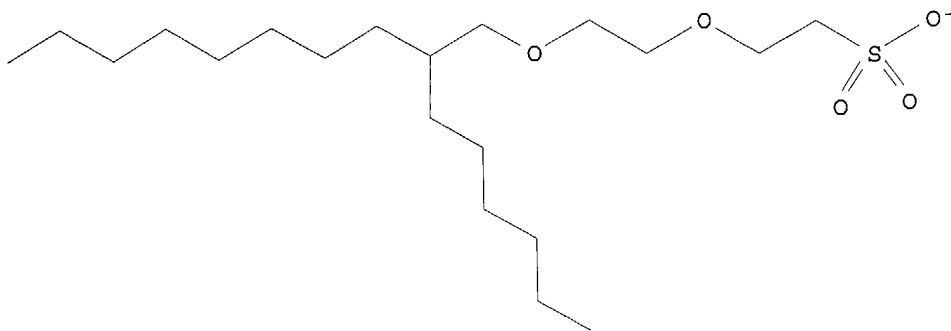
Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
NMR	Nuclear Magnetic Resonance	2

L21 ANSWER 5 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 6257732  
 Beilstein Pref. RN (BPR): 113218-99-8  
 CAS Reg. No. (RN): 113218-99-8  
 Chemical Name (CN): sodium 2-<2-(2-hexyldecyloxy)ethoxy>ethanesulfonate  
 Lin. Struct. Formula (LSF): C20H41O5S(1-)\*Na(1+)  
 Fragm. Molec. Formula (FMF): C20 H41 O5 S , Na  
 Molecular Formula (MF): C20 H41 O5 S . Na  
 Molecular Weight (MW): 393.60, 22.99  
 Fragment BRN (FBRN): 6224420, 3587169  
 Lawson Number (LN): 2770, 514, 377  
 Compound Type (CTYPE): acyclic  
 Constitution ID (CONSID): 5470304  
 Tautomer ID (TAUTID): 5973514  
 Beilstein Citation (BSO): 6-04  
 Entry Date (DED): 1993/10/20  
 Update Date (DUPD): 1993/10/20

CM 1

FBRN 6224420  
 FMF C20 H41 O5 S



CM 2

FBRN 3587169

FMF Na

Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
BPR	Beilstein Preferred RN	1
RN	CAS Registry Number	1
CN	Chemical Name	1
LSF	Linearized Structure Formula	1
FMF	Fragment Molecular Formula	2
MF	Molecular Formula	1
FW	Formular Weight	2
FBRN	Fragment BRN	2
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
LLSM	Liquid/Liquid System (MCS)	1
NMR	Nuclear Magnetic Resonance	2

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

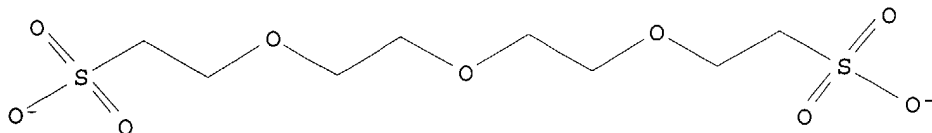
L21 ANSWER 6 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	4834618
Beilstein Pref. RN (BPR):	135456-44-9
CAS Reg. No. (RN):	135456-44-9
Chemical Name (CN):	Disodium 3,6,9-trioxaundecane-1,11-disulfonate
Lin. Struct. Formula (LSF):	C8H16O9S2(2-)*2Na(1+)
Fragm. Molec. Formula (FMF):	C8 H16 O9 S2 , Na
Molecular Formula (MF):	C8 H16 O9 S2 . 2 Na
Molecular Weight (MW):	320.33, 22.99
Fragment BRN (FBRN):	4819104, 3587169
Lawson Number (LN):	2770, 514
Compound Type (CTYPE):	acyclic
Constitution ID (CONSID):	4350668
Tautomer ID (TAUTID):	4684488
Beilstein Citation (BSO):	6-04
Entry Date (DED):	1992/07/20
Update Date (DUPD):	1992/12/09

CM 1

FBRN 4819104

FMF C8 H16 O9 S2



CM 2

FBRN 3587169

FMF Na

Field Availability:

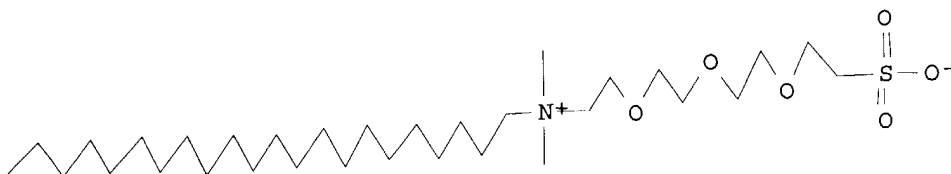
Code	Name	Occurrence
BRN	Beilstein Records	1
BPR	Beilstein Preferred RN	1
RN	CAS Registry Number	1
CN	Chemical Name	1
LSF	Linearized Structure Formula	1
FMF	Fragment Molecular Formula	2
MF	Molecular Formula	1
FW	Formular Weight	2
FBRN	Fragment BRN	2
LN	Lawson Number	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	2
RXREA	Substance is Reaction Reactant	1
RXPRO	Substance is Reaction Product	1

L21 ANSWER 7 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 4601791  
 Molec. Formula (MF): C32 H67 N O6 S  
 Molecular Weight (MW): 593.94  
 Lawson Number (LN): 3122, 2942, 2817, 2770, 514  
 Compound Type (CTYPE): acyclic  
 Constitution ID (CONSID): 4192035  
 Tautomer ID (TAUTID): 4487514  
 Beilstein Citation (BSO): 6-04  
 Entry Date (DED): 1991/12/02  
 Update Date (DUPD): 1991/12/02

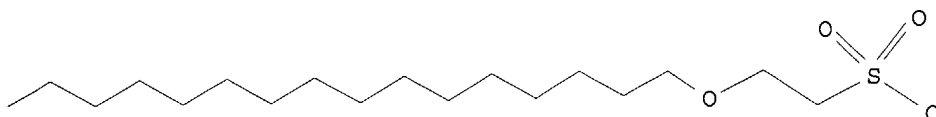


Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	5
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
MS	Mass Spectrum	1

L21 ANSWER 8 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 4449289  
 Beilstein Pref. RN (BPR): 83635-03-4  
 CAS Reg. No. (RN): 83635-03-4  
 Chemical Name (CN): 2-hexadecyloxy-ethanesulfonic acid  
 Autonom Name (AUN): 2-hexadecyloxy-ethanesulfonic acid  
 Molec. Formula (MF): C18 H38 O4 S  
 Molecular Weight (MW): 350.56  
 Lawson Number (LN): 2770, 376  
 Compound Type (CTYPE): acyclic  
 Constitution ID (CONSID): 4035885  
 Tautomer ID (TAUTID): 4314793  
 Beilstein Citation (BSO): 6-04  
 Entry Date (DED): 1991/12/02  
 Update Date (DUPD): 1993/02/15



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
BPR	Beilstein Preferred RN	1
RN	CAS Registry Number	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	2

FS	File Segment	1
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1

This substance also occurs in Reaction Documents:

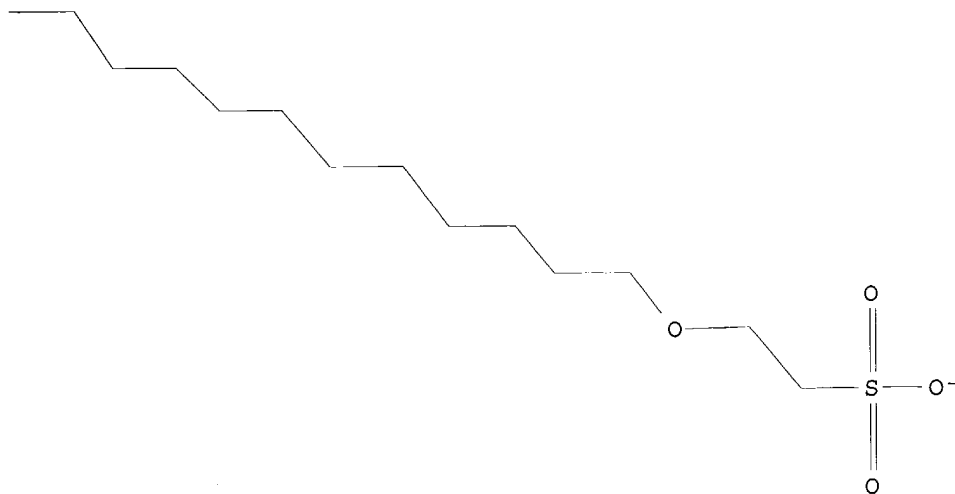
Code	Name	Occurrence
RX	Reaction Documents	3
RXPRO	Substance is Reaction Product	3

L21 ANSWER 9 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	3772596
Beilstein Pref. RN (BPR):	20829-85-0
CAS Reg. No. (RN):	20829-85-0
Chemical Name (CN):	2-dodecyloxy-ethanesulfonic acid ; sodium-salt
Lin. Struct. Formula (LSF):	C14H29O4S(1-)*Na(1+)
Fragm. Molec. Formula (FMF):	C14 H29 O4 S , Na
Molecular Formula (MF):	C14 H29 O4 S . Na
Molecular Weight (MW):	293.44, 22.99
Fragment BRN (FBRN):	3671578, 3587169
Lawson Number (LN):	2770, 380
Compound Type (CTYPE):	acyclic
Constitution ID (CONSID):	3402521
Tautomer ID (TAUTID):	3640971
Beilstein Citation (BSO):	4-04-00-00084, 6-04
Entry Date (DED):	1991/02/26
Update Date (DUPD):	1994/04/18

CM 1

FBRN 3671578  
FMF C14 H29 O4 S



CM 2

FBRN 3587169

FMF Na

Field Availability:

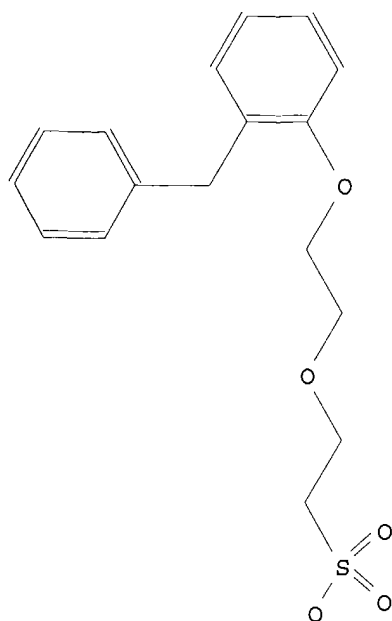
Code	Name	Occurrence
BRN	Beilstein Records	1
BPR	Beilstein Preferred RN	1
RN	CAS Registry Number	1
CN	Chemical Name	1
LSF	Linearized Structure Formula	1
FMF	Fragment Molecular Formula	2
MF	Molecular Formula	1
FW	Formular Weight	2
FBRN	Fragment BRN	2
LN	Lawson Number	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	2
ED	Entry Date	1
UPD	Update Date	1
BSPM	Boundary Surface Phenomena (MCS)	1
OTHE	Other Thermochemical Data	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	2
RXPRO	Substance is Reaction Product	2

L21 ANSWER 10 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 3460906  
Chemical Name (CN): 2-<2-(2-benzyl-phenoxy)-ethoxy>-ethanesulfonic acid  
Autonom Name (AUN): 2-<2-(2-benzyl-phenoxy)-ethoxy>-ethanesulfonic acid  
Molec. Formula (MF): C17 H20 O5 S  
Molecular Weight (MW): 336.40  
Lawson Number (LN): 5520, 2770, 514  
Compound Type (CTYPE): isocyclic  
Constitution ID (CONSID): 3061860  
Tautomer ID (TAUTID): 3297276  
Beilstein Citation (BSO): 3-06-00-03350  
Entry Date (DED): 1992/10/13  
Update Date (DUPD): 1992/10/13



Field Availability:

Code	Name	Occurrence
=====	=====	=====
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
CDER	Chemical Derivative	1

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L21 ANSWER 5 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Reaction:

RX

Reaction ID (.ID): 3473919  
 Reactant BRN (.RBRN): 6193239  
 Reactant (.RCT): 1-iodo-2-<2-(2-hexyldecyloxy)ethoxy>ethane  
 Product BRN (.PBRN): 6257732  
 Product (.PRO): sodium 2-<2-(2-hexyldecyloxy)ethoxy>ethanesulfonate  
 No. of React. Details (.NVAR): 1

Reaction Details:

RX

Reaction RID (.RID): 3473919.1  
 Reaction Classification (.CL): Preparation  
 Reagent (.RGT): sodium sulfite



Solvent (.SOL): H2O, propan-2-ol  
Time (.TIM): 96 hour(s)  
Other Conditions (.COND): Heating  
Note(s) (.COM): Yield given  
Reference(s):  
1. Choi, Kee-Ju; Turkevich, Leonid A.; Loza, Roman, J.Phys.Chem., CODEN:  
JPCHAX, 92(8), <1988>, 2248-2256; BABS-5759849

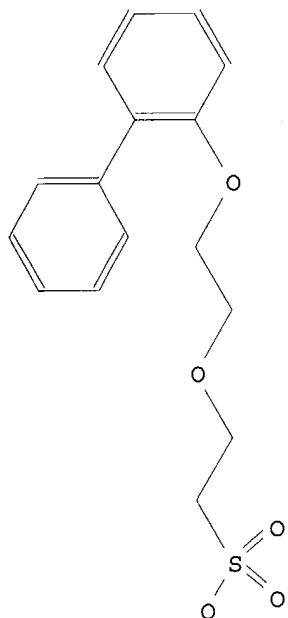
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L21 ANSWER 10 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

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L21 ANSWER 11 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 3431383  
Chemical Name (CN): 2-(2-biphenyl-2-yloxy-ethoxy)-  
ethanesulfonic acid  
Autonom Name (AUN): 2-<2-(biphenyl-2-yloxy)-ethoxy>-  
ethanesulfonic acid  
Molec. Formula (MF): C16 H18 O5 S  
Molecular Weight (MW): 322.38  
Lawson Number (LN): 5519, 2770, 514  
Compound Type (CTYPE): isocyclic  
Constitution ID (CONSID): 3055613  
Tautomer ID (TAUTID): 3293053  
Beilstein Citation (BSO): 3-06-00-03289  
Entry Date (DED): 1992/10/13  
Update Date (DUPD): 1992/10/13

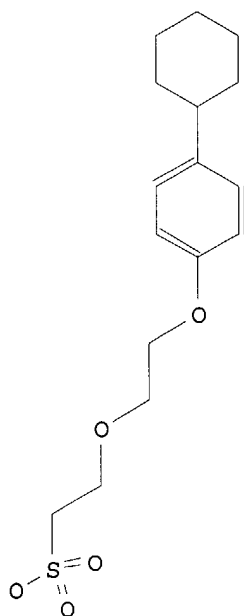


Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
CDER	Chemical Derivative	1

L21 ANSWER 12 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 3430258  
 Chemical Name (CN): 2-<2-(4-cyclohexyl-phenoxy)-ethoxy>-ethanesulfonic acid  
 Autonom Name (AUN): 2-<2-(4-cyclohexyl-phenoxy)-ethoxy>-ethanesulfonic acid  
 Molec. Formula (MF): C16 H24 O5 S  
 Molecular Weight (MW): 328.42  
 Lawson Number (LN): 5375, 2770, 514  
 Compound Type (CTYPE): isocyclic  
 Constitution ID (CONSID): 3076158  
 Tautomer ID (TAUTID): 3303113  
 Beilstein Citation (BSO): 3-06-00-02506  
 Entry Date (DED): 1992/10/13  
 Update Date (DUPD): 1992/10/13



Field Availability:

Code	Name	Occurrence
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=====
BRN      Beilstein Records          1
CN       Chemical Name              1
AUN      Autonomname                1
MF       Molecular Formula           1
FW       Formular Weight             1
LN       Lawson Number               3
CTYPE    Compound Type               1
CONSID   Constitution ID             1
TAUTID   Tautomer ID                1
BSO      Beilstein Citation          1
ED       Entry Date                  1
UPD      Update Date                 1
CDER     Chemical Derivative         2
=====

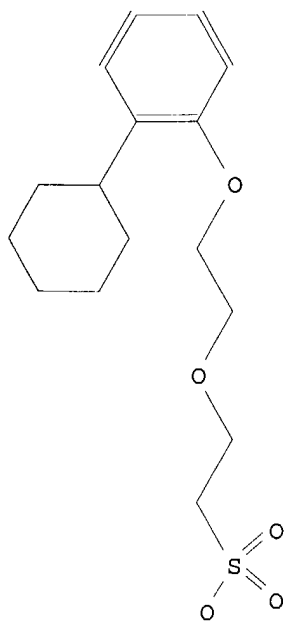
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L21 ANSWER 13 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

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Beilstein Records (BRN):      3413152
Chemical Name (CN):           2-<2-(2-cyclohexyl-phenoxy)-ethoxy>-
                               ethanesulfonic acid
Autonom Name (AUN):           2-<2-(2-cyclohexyl-phenoxy)-ethoxy>-
                               ethanesulfonic acid
Molec. Formula (MF):          C16 H24 O5 S
Molecular Weight (MW):         328.42
Lawson Number (LN):            5375, 2770, 514
Compound Type (CTYPE):         isocyclic
Constitution ID (CONSID):      3078299
Tautomer ID (TAUTID):          3301960
Beilstein Citation (BSO):      3-06-00-02495
Entry Date (DED):              1992/10/13
Update Date (DUPD):            1992/10/13

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Field Availability:

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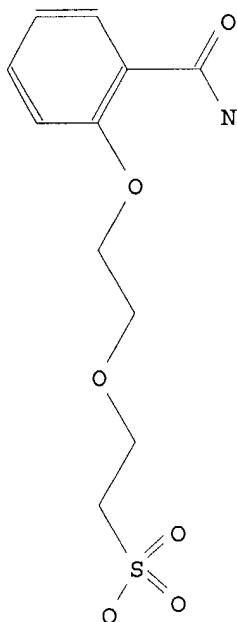
Code      Name                      Occurrence
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BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
CDER	Chemical Derivative	2

L21 ANSWER 14 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	3387108
Chemical Name (CN):	2-<2-(2-carbamoyl-phenoxy)-ethoxy>-ethanesulfonic acid
Autonom Name (AUN):	2-<2-(2-carbamoyl-phenoxy)-ethoxy>-ethanesulfonic acid
Molec. Formula (MF):	C11 H15 N O6 S
Molecular Weight (MW):	289.30
Lawson Number (LN):	11694, 2770, 514
Compound Type (CTYPE):	isocyclic
Constitution ID (CONSID):	3019252
Tautomer ID (TAUTID):	3245637
Beilstein Citation (BSO):	4-10-00-00179
Entry Date (DED):	1990/02/15
Update Date (DUPD):	1992/08/05



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1

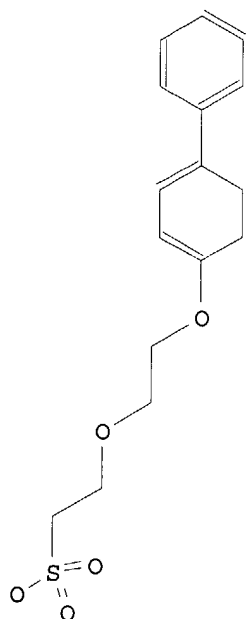
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
CDER	Chemical Derivative	1
MP	Melting Point	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

L21 ANSWER 15 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	3383561
Chemical Name (CN):	2-(2-biphenyl-4-yloxy-ethoxy)-ethanesulfonic acid
Autonom Name (AUN):	2-<2-(biphenyl-4-yloxy)-ethoxy>-ethanesulfonic acid
Molec. Formula (MF):	C16 H18 O5 S
Molecular Weight (MW):	322.38
Lawson Number (LN):	5519, 2770, 514
Compound Type (CTYPE):	isocyclic
Constitution ID (CONSID):	3020570
Tautomer ID (TAUTID):	3230372
Beilstein Citation (BSO):	3-06-00-03326
Entry Date (DED):	1992/10/13
Update Date (DUPD):	1992/10/13



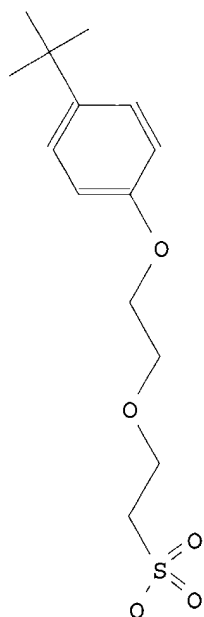
Field Availability:

Code	Name	Occurrence
=====	=====	=====
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
CDER	Chemical Derivative	1

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L21 ANSWER 16 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	3370642
Chemical Name (CN):	2-<2-(4-tert-butyl-phenoxy)-ethoxy>-ethanesulfonic acid
Autonom Name (AUN):	2-<2-(4-tert-butyl-phenoxy)-ethoxy>-ethanesulfonic acid
Molec. Formula (MF):	C14 H22 O5 S
Molecular Weight (MW):	302.38
Lawson Number (LN):	5250, 2770, 514
Compound Type (CTYPE):	isocyclic
Constitution ID (CONSID):	3007799
Tautomer ID (TAUTID):	3223364
Beilstein Citation (BSO):	3-06-00-01868
Entry Date (DED):	1992/10/13
Update Date (DUPD):	1992/10/13



Field Availability:

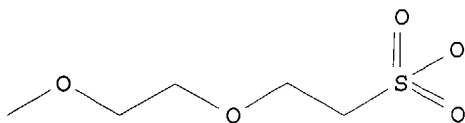
Code	Name	Occurrence
=====	=====	=====
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
CDER	Chemical Derivative	1

L21 ANSWER 1 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

```

Beilstein Records (BRN):          9322343
Chemical Name (CN):               2-(2-methoxy-ethoxy)-ethanesulfonic acid
Autonom Name (AUN):              2-(2-methoxy-ethoxy)-ethanesulfonic acid
Molec. Formula (MF):             C5 H12 O5 S
Molecular Weight (MW):           184.21
Lawson Number (LN):              2770, 514, 289
Compound Type (CTYPE):            acyclic
Constitution ID (CONSID):         7869215
Tautomer ID (TAUTID):            8761231
Entry Date (DED):                2003/07/25
Update Date (DUPD):              2003/07/25

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Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
FS	File Segment	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
ED	Entry Date	1
UPD	Update Date	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

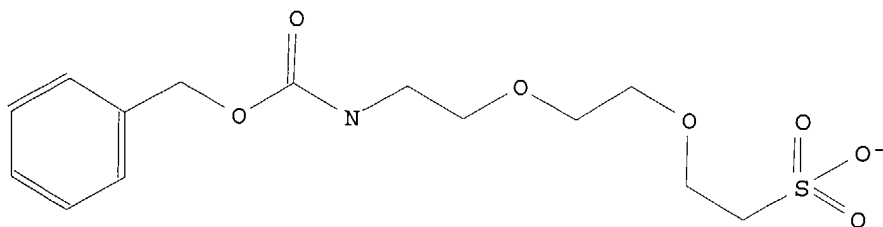
L21 ANSWER 2 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 7508034  
 Chemical Name (CN): sodium; 2-<2-(2-benzyloxycarbonylaminoethoxy)-ethoxy>-ethanesulfonate  
 Autonom Name (AUN): sodium; 2-<2-(2-benzyloxycarbonylaminoethoxy)-ethoxy>-ethanesulfonate  
 Lin. Struct. Formula (LSF): C14H20NO7S(1-)\*Na(1+)  
 Fragm. Molec. Formula (FMF): C14 H20 N O7 S , Na  
 Molecular Formula (MF): C14 H20 N O7 S . Na  
 Molecular Weight (MW): 346.37, 22.99  
 Fragment BRN (FBRN): 7495334, 3587169  
 Lawson Number (LN): 5228, 3122, 2770, 1762, 514  
 Compound Type (CTYPE): isocyclic  
 Constitution ID (CONSID): 6473354  
 Tautomer ID (TAUTID): 7174295  
 Beilstein Citation (BSO): 6-06  
 Entry Date (DED): 1996/11/12  
 Update Date (DUPD): 1997/08/11

CM 1

FBRN 7495334  
 FMF C14 H20 N O7 S





CM 2

FBRN 3587169

FMF Na

Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
LSF	Linearized Structure Formula	1
FMF	Fragment Molecular Formula	2
MF	Molecular Formula	1
FW	Formular Weight	2
FBRN	Fragment BRN	2
LN	Lawson Number	5
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
IR	Infrared Spectrum	1
NMR	Nuclear Magnetic Resonance	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	2
RXREA	Substance is Reaction Reactant	1
RXPRO	Substance is Reaction Product	1

L21 ANSWER 3 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 6549235  
 Beilstein Pref. RN (BPR): 101225-35-8  
 CAS Reg. No. (RN): 101225-35-8  
 Chemical Name (CN): sodium 2-decoxyethanesulfonate  
 Lin. Struct. Formula (LSF): C12H25O4S(1-)\*Na(1+)  
 Fragm. Molec. Formula (FMF): C12 H25 O4 S , Na  
 Molecular Formula (MF): C12 H25 O4 S . Na  
 Molecular Weight (MW): 265.39, 22.99  
 Fragment BRN (FBRN): 6507616, 3587169  
 Lawson Number (LN): 2770, 362  
 Compound Type (CTYPE): acyclic  
 Constitution ID (CONSID): 5704881  
 Tautomer ID (TAUTID): 6241896  
 Beilstein Citation (BSO): 6-04

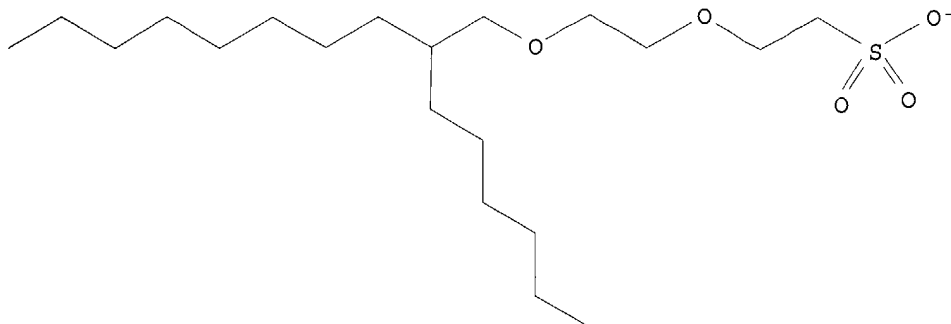
Beilstein Records (BRN):	6540050
Chemical Name (CN):	3-<2-<2-(2-phenoxy-ethoxy)-ethoxy>-ethoxy>-propane-1,2-disulfonic acid
Autonom Name (AUN):	3-<2-<2-(2-phenoxy-ethoxy)-ethoxy>-ethoxy>-propane-1,2-disulfonic acid
Molec. Formula (MF):	C15 H24 O10 S2

O=S(=O)(O=S(=O)CSCCOCOCOCOC1=CC=CC=C1)CSCCOCOCOCOC1=CC=CC=C1

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
NMR	Nuclear Magnetic Resonance	2

Beilstein Records (BRN):	6257732
Beilstein Pref. RN (BPR):	113218-99-8
CAS Reg. No. (RN):	113218-99-8
Chemical Name (CN):	sodium 2-(2-(2-hexyldecyloxy)ethoxy)ethanesulfonate
Lin. Struct. Formula (LSF):	C20H41O5S(1-)*Na(1+)
Fragm. Molec. Formula (FMF):	C20 H41 O5 S , Na
Molecular Formula (MF):	C20 H41 O5 S . Na
Molecular Weight (MW):	393.60, 22.99
Fragment BRN (FBRN):	6224420, 3587169
Lawson Number (LN):	2770, 514, 377
Compound Type (CTYPE):	acyclic
Constitution ID (CONSID):	5470304
Tautomer ID (TAUTID):	5973514
Beilstein Citation (BSO):	6-04
Entry Date (DED):	1993/10/20
Update Date (DUPD):	1993/10/20

FBRN 6224420  
FMF C20 H41 O5 S



CM 2

FBRN 3587169  
FMF Na

Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
BPR	Beilstein Preferred RN	1
RN	CAS Registry Number	1
CN	Chemical Name	1
LSF	Linearized Structure Formula	1
FMF	Fragment Molecular Formula	2
MF	Molecular Formula	1
FW	Formular Weight	2
FBRN	Fragment BRN	2
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
LLSM	Liquid/Liquid System (MCS)	1
NMR	Nuclear Magnetic Resonance	2

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

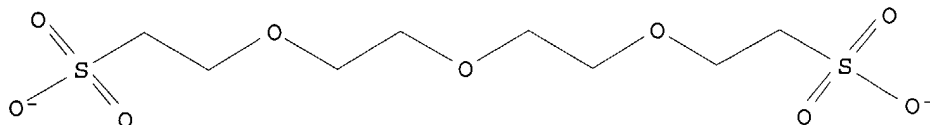
L21 ANSWER 6 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 4834618  
Beilstein Pref. RN (BPR): 135456-44-9  
CAS Reg. No. (RN): 135456-44-9  
Chemical Name (CN): Disodium 3,6,9-trioxaundecane-1,11-disulfonate

Lin. Struct. Formula (LSF): C8H16O9S2(2-)\*2Na(1+)  
 Fragm. Molec. Formula (FMF): C8 H16 O9 S2 , Na  
 Molecular Formula (MF): C8 H16 O9 S2 . 2 Na  
 Molecular Weight (MW): 320.33, 22.99  
 Fragment BRN (FBRN): 4819104, 3587169  
 Lawson Number (LN): 2770, 514  
 Compound Type (CTYPE): acyclic  
 Constitution ID (CONSID): 4350668  
 Tautomer ID (TAUTID): 4684488  
 Beilstein Citation (BSO): 6-04  
 Entry Date (DED): 1992/07/20  
 Update Date (DUPD): 1992/12/09

CM 1

FBRN 4819104  
 FMF C8 H16 O9 S2



CM 2

FBRN 3587169  
 FMF Na

Field Availability:

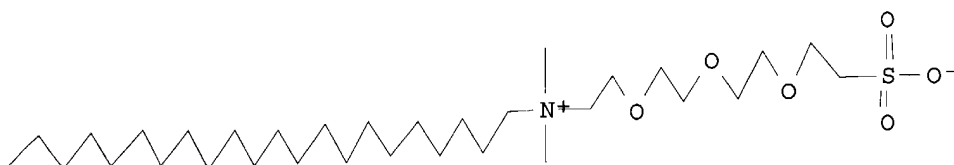
Code	Name	Occurrence
BRN	Beilstein Records	1
BPR	Beilstein Preferred RN	1
RN	CAS Registry Number	1
CN	Chemical Name	1
LSF	Linearized Structure Formula	1
FMF	Fragment Molecular Formula	2
MF	Molecular Formula	1
FW	Formular Weight	2
FBRN	Fragment BRN	2
LN	Lawson Number	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	2
RXREA	Substance is Reaction Reactant	1
RXPRO	Substance is Reaction Product	1

L21 ANSWER 7 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 4601791  
 Molec. Formula (MF): C32 H67 N O6 S  
 Molecular Weight (MW): 593.94  
 Lawson Number (LN): 3122, 2942, 2817, 2770, 514  
 Compound Type (CTYPE): acyclic  
 Constitution ID (CONSID): 4192035  
 Tautomer ID (TAUTID): 4487514  
 Beilstein Citation (BSO): 6-04  
 Entry Date (DED): 1991/12/02  
 Update Date (DUPD): 1991/12/02

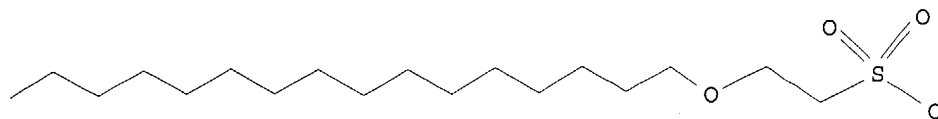


Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	5
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
MS	Mass Spectrum	1

L21 ANSWER 8 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 4449289  
 Beilstein Pref. RN (BPR): 83635-03-4  
 CAS Reg. No. (RN): 83635-03-4  
 Chemical Name (CN): 2-hexadecyloxy-ethanesulfonic acid  
 Autonom Name (AUN): 2-hexadecyloxy-ethanesulfonic acid  
 Molec. Formula (MF): C18 H38 O4 S  
 Molecular Weight (MW): 350.56  
 Lawson Number (LN): 2770, 376  
 Compound Type (CTYPE): acyclic  
 Constitution ID (CONSID): 4035885  
 Tautomer ID (TAUTID): 4314793  
 Beilstein Citation (BSO): 6-04  
 Entry Date (DED): 1991/12/02  
 Update Date (DUPD): 1993/02/15



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
BPR	Beilstein Preferred RN	1
RN	CAS Registry Number	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	2
FS	File Segment	1
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1

This substance also occurs in Reaction Documents:

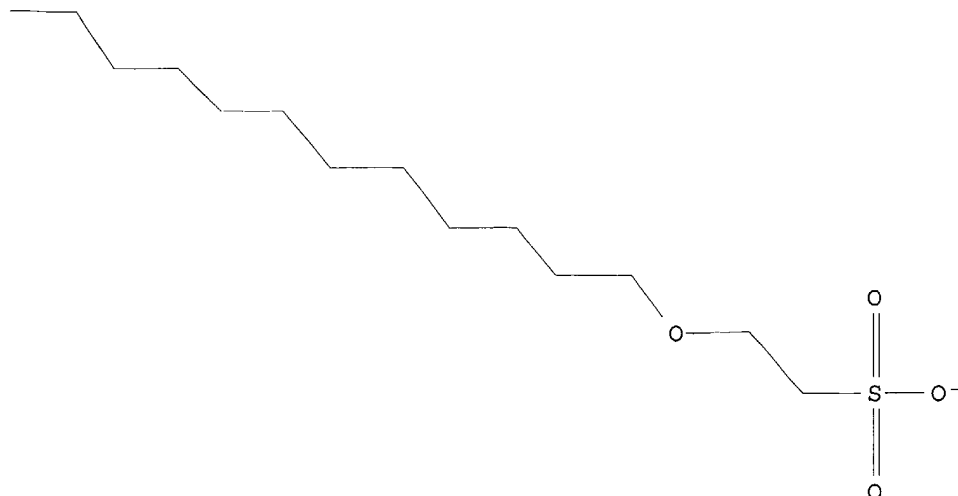
Code	Name	Occurrence
RX	Reaction Documents	3
RXPRO	Substance is Reaction Product	3

L21 ANSWER 9 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	3772596
Beilstein Pref. RN (BPR):	20829-85-0
CAS Reg. No. (RN):	20829-85-0
Chemical Name (CN):	2-dodecyloxy-ethanesulfonic acid ; sodium-salt
Lin. Struct. Formula (LSF):	C14H29O4S(1-)*Na(1+)
Fragm. Molec. Formula (FMF):	C14 H29 O4 S , Na
Molecular Formula (MF):	C14 H29 O4 S . Na
Molecular Weight (MW):	293.44, 22.99
Fragment BRN (FBRN):	3671578, 3587169
Lawson Number (LN):	2770, 380
Compound Type (CTYPE):	acyclic
Constitution ID (CONSID):	3402521
Tautomer ID (TAUTID):	3640971
Beilstein Citation (BSO):	4-04-00-00084, 6-04
Entry Date (DED):	1991/02/26
Update Date (DUPD):	1994/04/18

CM 1

FBRN 3671578  
FMF C14 H29 O4 S



CM 2

FBRN 3587169

FMF Na

Field Availability:

Code	Name	Occurrence
=====	=====	=====
BRN	Beilstein Records	1
BPR	Beilstein Preferred RN	1
RN	CAS Registry Number	1
CN	Chemical Name	1
LSF	Linearized Structure Formula	1
FMF	Fragment Molecular Formula	2
MF	Molecular Formula	1
FW	Formular Weight	2
FBRN	Fragment BRN	2
LN	Lawson Number	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	2
ED	Entry Date	1
UPD	Update Date	1
BSPM	Boundary Surface Phenomena (MCS)	1
OTHE	Other Thermochemical Data	1

This substance also occurs in Reaction Documents:

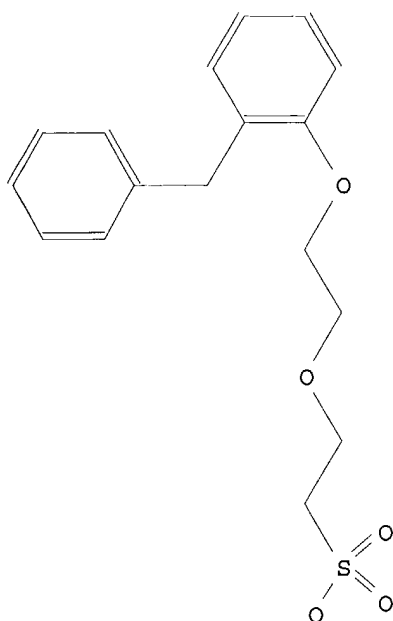
Code	Name	Occurrence
=====	=====	=====
RX	Reaction Documents	2
RXPRO	Substance is Reaction Product	2

L21 ANSWER 10 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 3460906  
 Chemical Name (CN): 2-<2-(2-benzyl-phenoxy)-ethoxy>-ethanesulfonic acid  
 Autonom Name (AUN): 2-<2-(2-benzyl-phenoxy)-ethoxy>-



Molec. Formula (MF):	ethanesulfonic acid
Molecular Weight (MW):	C17 H20 O5 S
Lawson Number (LN):	336.40
Compound Type (CTYPE):	5520, 2770, 514
Constitution ID (CONSID):	isocyclic
Tautomer ID (TAUTID):	3061860
Beilstein Citation (BSO):	3297276
Entry Date (DED):	3-06-00-03350
Update Date (DUPD):	1992/10/13



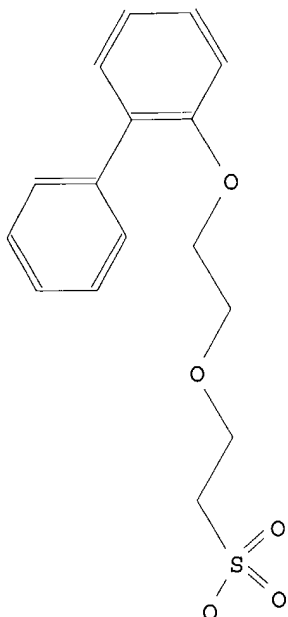
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Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
CDER	Chemical Derivative	1

L21 ANSWER 11 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	3431383
Chemical Name (CN):	2-(2-biphenyl-2-yloxy-ethoxy)-ethanesulfonic acid

Autonom Name (AUN): 2-<2-(biphenyl-2-yloxy)-ethoxy>-ethanesulfonic acid  
Molec. Formula (MF): C16 H18 O5 S  
Molecular Weight (MW): 322.38  
Lawson Number (LN): 5519, 2770, 514  
Compound Type (CTYPE): isocyclic  
Constitution ID (CONSID): 3055613  
Tautomer ID (TAUTID): 3293053  
Beilstein Citation (BSO): 3-06-00-03289  
Entry Date (DED): 1992/10/13  
Update Date (DUPD): 1992/10/13



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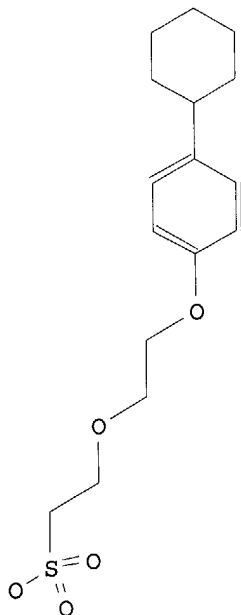
Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
CDER	Chemical Derivative	1

L21 ANSWER 12 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 3430258  
Chemical Name (CN): 2-<2-(4-cyclohexyl-phenoxy)-ethoxy>-ethanesulfonic acid  
Autonom Name (AUN): 2-<2-(4-cyclohexyl-phenoxy)-ethoxy>-

ethanesulfonic acid

Molec. Formula (MF): C16 H24 O5 S  
Molecular Weight (MW): 328.42  
Lawson Number (LN): 5375, 2770, 514  
Compound Type (CTYPE): isocyclic  
Constitution ID (CONSID): 3076158  
Tautomer ID (TAUTID): 3303113  
Beilstein Citation (BSO): 3-06-00-02506  
Entry Date (DED): 1992/10/13  
Update Date (DUPD): 1992/10/13



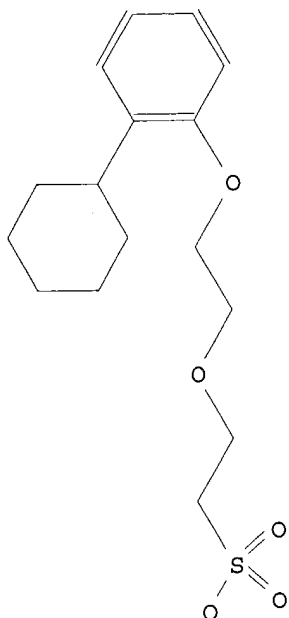
Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
CDER	Chemical Derivative	2

L21 ANSWER 13 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 3413152  
Chemical Name (CN): 2-<2-(2-cyclohexyl-phenoxy)-ethoxy>-ethanesulfonic acid  
Autonom Name (AUN): 2-<2-(2-cyclohexyl-phenoxy)-ethoxy>-ethanesulfonic acid

Molec. Formula (MF): C16 H24 O5 S  
 Molecular Weight (MW): 328.42  
 Lawson Number (LN): 5375, 2770, 514  
 Compound Type (CTYPE): isocyclic  
 Constitution ID (CONSID): 3078299  
 Tautomer ID (TAUTID): 3301960  
 Beilstein Citation (BSO): 3-06-00-02495  
 Entry Date (DED): 1992/10/13  
 Update Date (DUPD): 1992/10/13



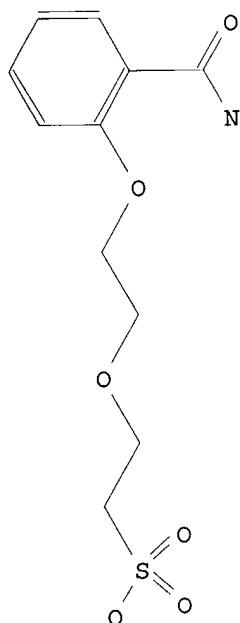
Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
CDER	Chemical Derivative	2

L21 ANSWER 14 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 3387108  
 Chemical Name (CN): 2-<2-(2-carbamoyl-phenoxy)-ethoxy>-ethanesulfonic acid  
 Autonom Name (AUN): 2-<2-(2-carbamoyl-phenoxy)-ethoxy>-ethanesulfonic acid  
 Molec. Formula (MF): C11 H15 N O6 S

Molecular Weight (MW): 289.30  
 Lawson Number (LN): 11694, 2770, 514  
 Compound Type (CTYPE): isocyclic  
 Constitution ID (CONSID): 3019252  
 Tautomer ID (TAUTID): 3245637  
 Beilstein Citation (BSO): 4-10-00-00179  
 Entry Date (DED): 1990/02/15  
 Update Date (DUPD): 1992/08/05



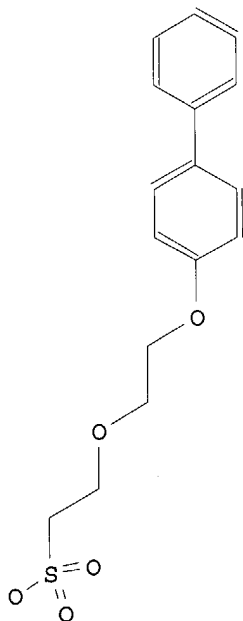
Field Availability:

Code	Name	Occurrence
=====	=====	=====
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
CDER	Chemical Derivative	1
MP	Melting Point	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
=====	=====	=====
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

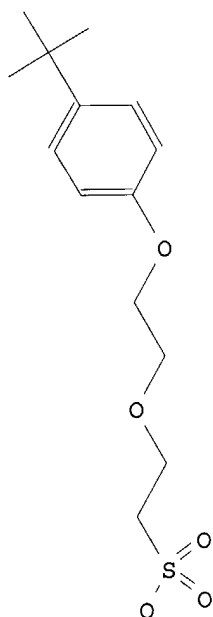
Beilstein Records (BRN): 3383561  
 Chemical Name (CN): 2-(2-biphenyl-4-yloxy-ethoxy)-ethanesulfonic acid  
 Autonom Name (AUN): 2-<2-(biphenyl-4-yloxy)-ethoxy>-ethanesulfonic acid  
 Molec. Formula (MF): C16 H18 O5 S  
 Molecular Weight (MW): 322.38  
 Lawson Number (LN): 5519, 2770, 514  
 Compound Type (CTYPE): isocyclic  
 Constitution ID (CONSID): 3020570  
 Tautomer ID (TAUTID): 3230372  
 Beilstein Citation (BSO): 3-06-00-03326  
 Entry Date (DED): 1992/10/13  
 Update Date (DUPD): 1992/10/13



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
CDER	Chemical Derivative	1

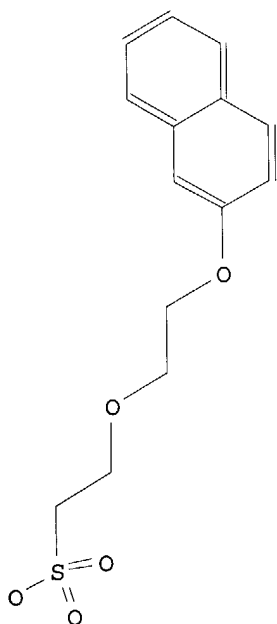
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 Chemical Name (CN): 2-<2-(4-tert-butyl-phenoxy)-ethoxy>-ethanesulfonic acid  
 Autonom Name (AUN): 2-<2-(4-tert-butyl-phenoxy)-ethoxy>-ethanesulfonic acid  
 Molec. Formula (MF): C14 H22 O5 S  
 Molecular Weight (MW): 302.38  
 Lawson Number (LN): 5250, 2770, 514  
 Compound Type (CTYPE): isocyclic  
 Constitution ID (CONSID): 3007799  
 Tautomer ID (TAUTID): 3223364  
 Beilstein Citation (BSO): 3-06-00-01868  
 Entry Date (DED): 1992/10/13  
 Update Date (DUPD): 1992/10/13



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
CDER	Chemical Derivative	1

Beilstein Records (BRN): 3365156  
 Chemical Name (CN): 2-(2-<2>naphthyloxy-ethoxy)-ethanesulfonic acid  
 Autonom Name (AUN): 2-<2-(naphthalen-2-yloxy)-ethoxy>-ethanesulfonic acid  
 Molec. Formula (MF): C14 H16 O5 S  
 Molecular Weight (MW): 296.34  
 Lawson Number (LN): 5509, 2770, 514  
 Compound Type (CTYPE): isocyclic  
 Constitution ID (CONSID): 3011870  
 Tautomer ID (TAUTID): 3224531  
 Beilstein Citation (BSO): 3-06-00-02978  
 Entry Date (DED): 1992/10/13  
 Update Date (DUPD): 1992/10/13

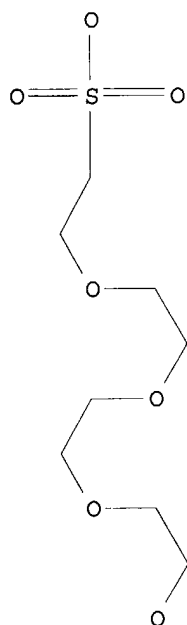


Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
CDER	Chemical Derivative	1



Beilstein Records (BRN): 2107273  
 Chemical Name (CN): 2-<2-<2-(2-hydroxy-ethoxy)-ethoxy>-ethoxy>-ethanesulfonic acid  
 Autonom Name (AUN): 2-<2-<2-(2-hydroxy-ethoxy)-ethoxy>-ethoxy>-ethanesulfonic acid  
 Molec. Formula (MF): C8 H18 O7 S  
 Molecular Weight (MW): 258.29  
 Lawson Number (LN): 2770, 514  
 Compound Type (CTYPE): acyclic  
 Constitution ID (CONSID): 1954646  
 Tautomer ID (TAUTID): 2070674  
 Beilstein Citation (BSO): 5-04  
 Entry Date (DED): 1989/06/29  
 Update Date (DUPD): 1992/04/28



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
BP	Boiling Point	1
CDER	Chemical Derivative	1

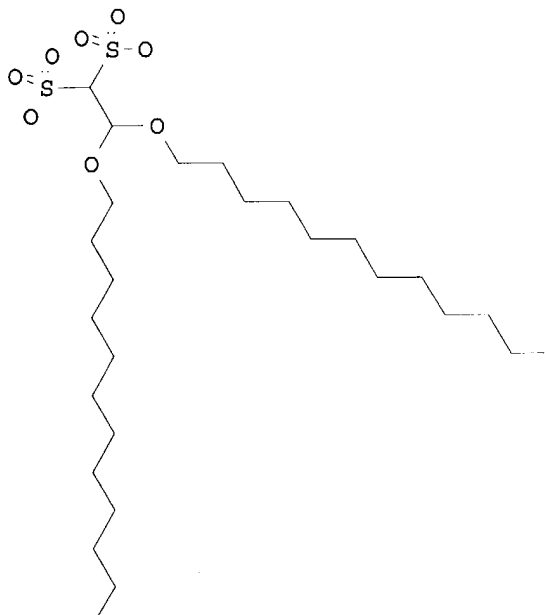
This substance also occurs in Reaction Documents:

Code	Name	Occurrence
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RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

L21 ANSWER 19 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	1813834
Chemical Name (CN):	2,2-bis-dodecyloxy-ethane-1,1-disulfonic acid
Autonom Name (AUN):	2,2-bis-dodecyloxy-ethane-1,1-disulfonic acid
Molec. Formula (MF):	C26 H54 O8 S2
Molecular Weight (MW):	558.83
Lawson Number (LN):	874, 380
Compound Type (CTYPE):	acyclic
Constitution ID (CONSID):	1740821
Tautomer ID (TAUTID):	1818910
Beilstein Citation (BSO):	3-01-00-03084
Entry Date (DED):	1989/02/27
Update Date (DUPD):	1992/06/02



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1

BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

L21 ANSWER 20 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	1801348
Beilstein Pref. RN (BPR):	117330-72-0
CAS Reg. No. (RN):	117330-72-0
Chemical Name (CN):	2-octadecyloxy-ethanesulfonic acid
Autonom Name (AUN):	2-octadecyloxy-ethanesulfonic acid
Molec. Formula (MF):	C20 H42 O4 S
Molecular Weight (MW):	378.61
Lawson Number (LN):	2770, 378
Compound Type (CTYPE):	acyclic
Constitution ID (CONSID):	1731117
Tautomer ID (TAUTID):	1806067
Beilstein Citation (BSO):	3-04-00-00043
Entry Date (DED):	1989/02/27
Update Date (DUPD):	1992/06/02



Field Availability:

Code	Name	Occurrence
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BPR	Beilstein Preferred RN	1

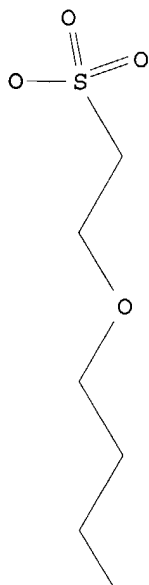
RN	CAS Registry Number	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

L21 ANSWER 21 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	1766811
Beilstein Pref. RN (BPR):	83635-04-5
CAS Reg. No. (RN):	83635-04-5
Chemical Name (CN):	2-butoxy-ethanesulfonic acid
Autonom Name (AUN):	2-butoxy-ethanesulfonic acid
Molec. Formula (MF):	C6 H14 O4 S
Molecular Weight (MW):	182.23
Lawson Number (LN):	2770, 316
Compound Type (CTYPE):	acyclic
Constitution ID (CONSID):	1591950
Tautomer ID (TAUTID):	1700605
Beilstein Citation (BSO):	3-04-00-00043, 6-04
Entry Date (DED):	1989/02/27
Update Date (DUPD):	1993/02/15



Field Availability:

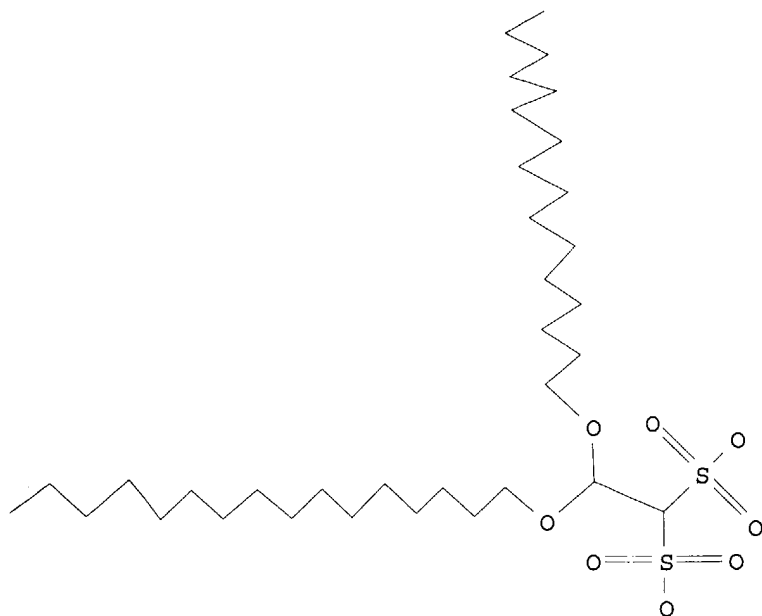
Code	Name	Occurrence
BRN	Beilstein Records	1
BPR	Beilstein Preferred RN	1
RN	CAS Registry Number	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	2
ED	Entry Date	1
UPD	Update Date	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	2
RXPRO	Substance is Reaction Product	2

L21 ANSWER 22 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	1718111
Chemical Name (CN):	2,2-bis-hexadecyloxy-ethane-1,1-disulfonic acid
Autonom Name (AUN):	2,2-bis-hexadecyloxy-ethane-1,1-disulfonic acid
Molec. Formula (MF):	C34 H70 O8 S2
Molecular Weight (MW):	671.04
Lawson Number (LN):	874, 376
Compound Type (CTYPE):	acyclic
Constitution ID (CONSID):	1650074
Tautomer ID (TAUTID):	1730901
Beilstein Citation (BSO):	3-01-00-03084
Entry Date (DED):	1989/02/27
Update Date (DUPD):	1991/09/20



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1

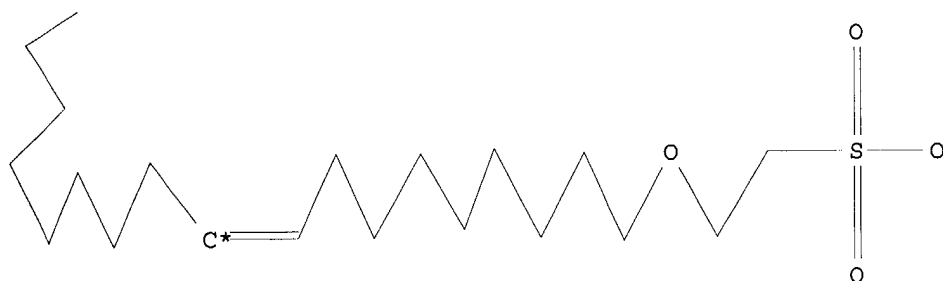
This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

L21 ANSWER 23 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 1715107  
 Beilstein Pref. RN (BPR): 120256-31-7  
 CAS Reg. No. (RN): 120256-31-7  
 Chemical Name (CN): 2-octadec-9-enyloxy-ethanesulfonic acid  
 Autonom Name (AUN): 2-octadec-9-enyloxy-ethanesulfonic acid  
 Molec. Formula (MF): C20 H40 O4 S  
 Molecular Weight (MW): 376.59  
 Lawson Number (LN): 2770, 466  
 Compound Type (CTYPE): acyclic  
 Constitution ID (CONSID): 1646612  
 Tautomer ID (TAUTID): 1728092  
 Beilstein Citation (BSO): 3-04-00-00043

Entry Date (DED): 1989/02/27  
Update Date (DUPD): 1992/05/13



Field Availability:

Code	Name	Occurrence
=====	=====	=====
BRN	Beilstein Records	1
BPR	Beilstein Preferred RN	1
RN	CAS Registry Number	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
=====	=====	=====
RX	Reaction Documents	2
RXPRO	Substance is Reaction Product	2

=> d frxpro 21

L21 ANSWER 21 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Reaction:

RX

Reaction ID (.ID): 2631420  
 Reactant BRN (.RBRN): 4621825  
 Reactant (.RCT): C8H19NO3S\*C2H6O4S  
 Product BRN (.PBRN): 1766811, 4375698  
 Product (.PRO): 2-butoxy-ethanesulfonic acid,  
 2-hydroxy-ethanesulfonic acid butyl ester  
 No. of React. Details (.NVAR): 3

Reaction Details:

RX

Reaction RID (.RID): 2631420.1  
 Reaction Classification (.CL): Preparation

Yield (.YDT): 5 percent Spectr. (BRN=1766811), 55  
percent Spectr (BRN=4375698)  
Solvent (.SOL): toluene  
Time (.TIM): 1 hour(s)  
Temperature (.T): 110 Cel  
Note(s) (.COM): Title compound not separated from  
byproducts  
Reference(s):  
1. King, J. F.; Loosmore, S. M.; Aslam, M.; Lock, J. D.; McGarrity, M. J.,  
J.Amer.Chem.Soc., CODEN: JACSAT, 104(25), <1982>, 7108-7122;  
BABS-5691951

RX

Reaction RID (.RID): 2631420.2  
Reaction Classification (.CL): Preparation  
Yield (.YDT): 55 percent (BRN=4375698)  
Solvent (.SOL): toluene  
Time (.TIM): 1 hour(s)  
Other Conditions (.COND): Heating  
Note(s) (.COM): Yield given  
Reference(s):  
1. King, J. F.; Aslam, M., Tetrahedron Lett., CODEN: TELEAY, 22(37),  
<1981>, 3573-3576; BABS-5545525

RX

Reaction RID (.RID): 2631420.3  
Reaction Classification (.CL): Preparation  
Yield (.YDT): 55 percent (BRN=4375698)  
Solvent (.SOL): toluene  
Time (.TIM): 1 hour(s)  
Other Conditions (.COND): Heating  
Reference(s):  
1. King, J. F.; Aslam, M., Tetrahedron Lett., CODEN: TELEAY, 22(37),  
<1981>, 3573-3576; BABS-5545525

Reaction:

RX

Reaction ID (.ID): 845013  
Reactant BRN (.RBRN): 1751214, 969148  
Reactant (.RCT): 2-hydroxy-ethanesulfonic acid, butan-1-ol  
Product BRN (.PBRN): 1766811  
Product (.PRO): 2-butoxy-ethanesulfonic acid  
No. of React. Details (.NVAR): 1

Reaction Details:

RX

Reaction RID (.RID): 845013.1  
Reaction Classification (.CL): Preparation  
Temperature (.T): 170 - 180 Cel  
Note(s) (.COM): Handbook  
Reference(s):  
1. Patent: I.G. Farbenind. CH 157237 1931  
2. Patent: Gen. Aniline Works FR 715585  
3. Patent: Gen. Aniline Works US 1985747 1931

=> d frxpro 20

L21 ANSWER 20 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Reaction:

RX

Reaction ID (.ID): 131645  
Reactant BRN (.RBRN): 1362907, 1788922  
Reactant (.RCT): octadecan-1-ol, 2-sulfooxy-ethanesulfonic



acid  
Product BRN (.PBRN): 1801348  
Product (.PRO): 2-octadecyloxy-ethanesulfonic acid  
No. of React. Details (.NVAR): 1

Reaction Details:

RX

Reaction RID (.RID): 131645.1  
Reaction Classification (.CL): Preparation  
Temperature (.T): 40 - 50 Cel  
Note(s) (.COM): Handbook  
Reference(s):  
1. Patent: Gen. Aniline Works FR 715585  
2. Patent: Gen. Aniline Works US 1985747 1931  
3. Patent: I.G. Farbenind. DE 649993 1930, Fortschr.Teerfarbenfabr.Verw.In  
dustriezweige, 22, 1309

=> d frxpro 18

L21 ANSWER 18 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Reaction:

RX

Reaction ID (.ID): 7293752  
Product BRN (.PBRN): 2107273  
Product (.PRO): 2-<2-<2-(2-hydroxy-ethoxy)-ethoxy>-ethoxy>-  
ethanesulfonic acid  
No. of React. Details (.NVAR): 1

Reaction Details:

RX

Reaction RID (.RID): 7293752.1  
Reaction Classification (.CL): Preparation (half reaction)  
Reference(s):  
1. Patent: Emery Ind. US 3823185 1974, Chem.Abstr., 82(3789)

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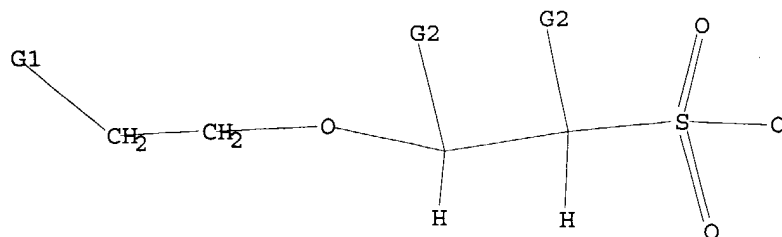
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L22 STRUCTURE UPLOADED

=> d

L22 HAS NO ANSWERS

L22 STR



G1 C,O,Cb

G2 Me,Et,n-Pr,i-Pr,H

Structure attributes must be viewed using STN Express query preparation.

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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	424.74	742.60
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-5.54

FILE 'REGISTRY' ENTERED AT 08:43:46 ON 18 MAY 2004  
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
 COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file  
 provided by InfoChem.

STRUCTURE FILE UPDATES: 17 MAY 2004 HIGHEST RN 682740-60-9  
 DICTIONARY FILE UPDATES: 17 MAY 2004 HIGHEST RN 682740-60-9

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when  
 conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more  
 information enter HELP PROP at an arrow prompt in the file or refer  
 to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

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 SAMPLE SCREEN SEARCH COMPLETED - 1609 TO ITERATE

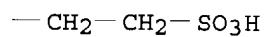
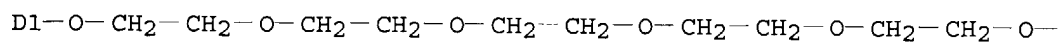
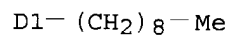
62.2% PROCESSED 1000 ITERATIONS 14 ANSWERS  
 INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
 SEARCH TIME: 00.00.03

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
 BATCH \*\*COMPLETE\*\*  
 PROJECTED ITERATIONS: 29774 TO 34586  
 PROJECTED ANSWERS: 166 TO 734

L23 14 SEA SSS SAM L22

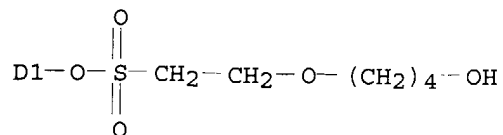
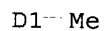
=> d scan

L23 14 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
 IN 3,6,9,12,15-Pentaoxaheptadecane-1-sulfonic acid, 17-(nonylphenoxy)-,  
 sodium salt (9CI)  
 MF C27 H48 O9 S . Na  
 CI IDS

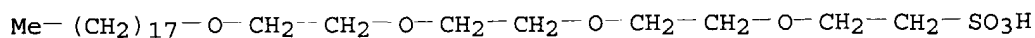


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

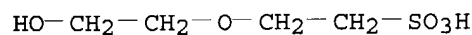
L23 14 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
 IN Ethanesulfonic acid, 2-(4-hydroxybutoxy)-, tolyl ester (7CI)  
 MF C13 H20 O5 S  
 CI IDS



L23 14 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
 IN 3,6,9,12-Tetraoxatriacontane-1-sulfonic acid, ammonium salt (9CI)  
 MF C26 H54 O7 S . H3 N

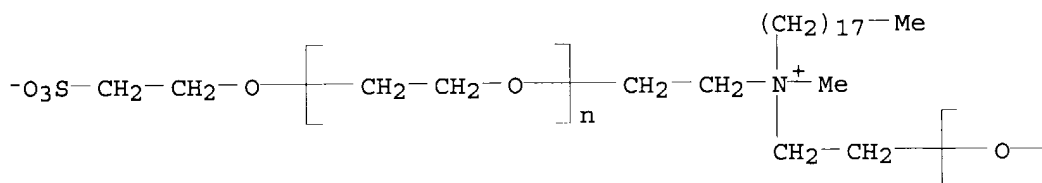


L23 14 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
 IN Ethanesulfonic acid, 2-(2-hydroxyethoxy)-, monosodium salt (9CI)  
 MF C4 H10 O5 S . Na  
 CI COM

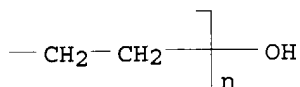


L23 14 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
 IN Poly(oxy-1,2-ethanediyl),  $\alpha,\alpha'$ -[(methyloctadecyliminio)di-2,1-ethanediyl]bis[ $\omega$ -hydroxy- $\omega'$ -(2-sulfoethoxy)-, inner salt (9CI)  
 MF (C2 H4 O) $n$  (C2 H4 O) $n$  C25 H53 N O5 S  
 CI PMS

PAGE 1-A

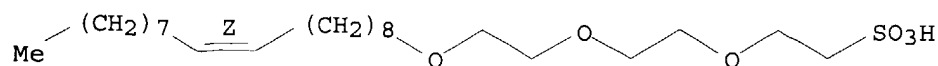


PAGE 1-B



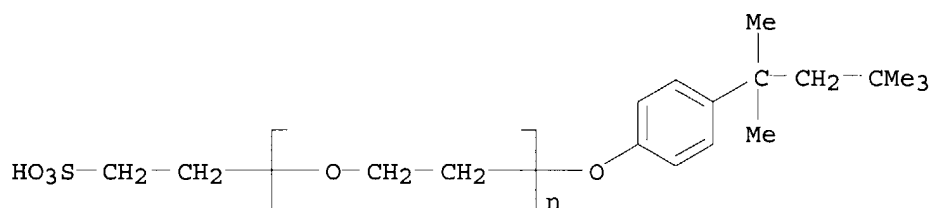
L23 14 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
 IN Ethanesulfonic acid, 2-[2-[2-(9-octadecenyl)ethoxy]ethoxy]-, sodium salt, (Z)- (9CI)  
 MF C24 H48 O6 S . Na

Double bond geometry as shown.



● Na

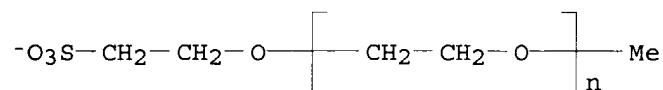
L23 14 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
 IN Poly(oxy-1,2-ethanediyl),  $\alpha$ -(2-sulfoethyl)- $\omega$ -[4-(1,1,3,3-tetramethylbutyl)phenoxy]-, sodium salt (9CI)  
 MF (C2 H4 O)<sub>n</sub> C16 H26 O4 S . Na  
 CI PMS



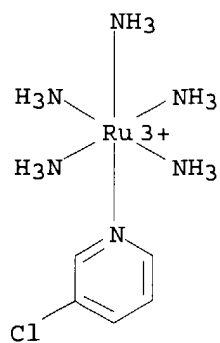
● Na

L23 14 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
 IN Ruthenium(3+), pentaammine(3-chloropyridine- $\kappa$ N)-, (OC-6-22)-, (OC-6-22)-pentaammine(3-chloropyridine- $\kappa$ N)ruthenium(2+) salt with  $\alpha$ -methyl- $\omega$ -(2-sulfoethoxy)poly(oxy-1,2-ethanediyl) (1:5) (9CI)  
 MF C5 H19 Cl N6 Ru . C5 H19 Cl N6 Ru . 5 (C2 H4 O)<sub>n</sub> C3 H7 O4 S

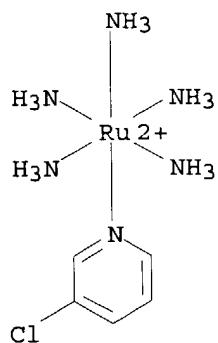
CM 1



CM 2

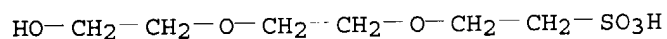


CM 3

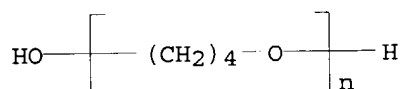


L23 14 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
 IN 1,4-Benzenedicarboxylic acid, polymer with 1,2-ethanediol,  
 $\alpha$ -hydro- $\omega$ -hydroxypoly(oxy-1,4-butanediyl) and  
 2-[2-(2-hydroxyethoxy)ethoxy]ethanesulfonic acid monosodium salt (9CI)  
 MF (C8 H6 O4 . C6 H14 O6 S . (C4 H8 O)n H2 O . C2 H6 O2 . Na)x  
 CI PMS

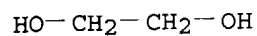
CM 1



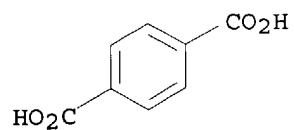
CM 2



CM 3

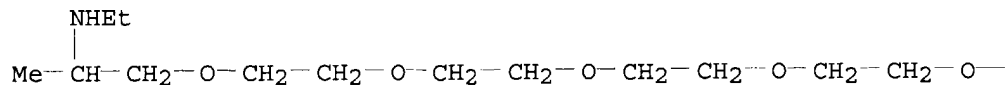


CM 4



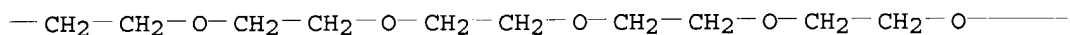
L23 14 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
 IN 3,6,9,12,15,18,21,24,27,30,33-Undecaoxa-36-azaoctatriacontane-1-sulfonic  
 acid, 35-methyl-, monopotassium salt (9CI)  
 MF C27 H57 N O14 S . K

PAGE 1-A

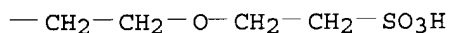


● K

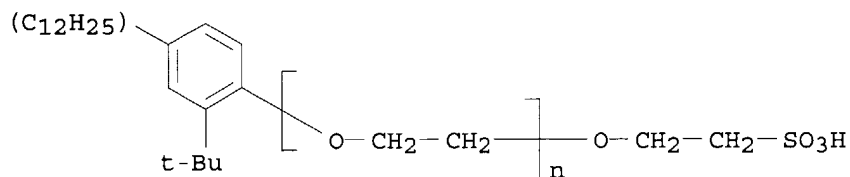
PAGE 1-B



PAGE 1-C



L23 14 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
 IN Poly(oxy-1,2-ethanediyl),  $\alpha$ -[2-(1,1-dimethylethyl)-4-tetrapropylphenyl]- $\omega$ -(2-sulfoethoxy)-, sodium salt (9CI)  
 MF (C2 H4 O)<sub>n</sub> C24 H42 O4 S . Na  
 CI IDS, PMS



● Na

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> d his

(FILE 'HOME' ENTERED AT 07:45:54 ON 18 MAY 2004)

FILE 'REGISTRY' ENTERED AT 07:46:04 ON 18 MAY 2004

L1 8 S BOROXINE  
 L2 0 S BIS AZINYL  
 L3 6 S AZINYL

L4 285790 S 1-6  
L5 STRUCTURE UPLOADED  
L6 14 S L5  
L7 480 S L5 FULL  
L8 279 S L7 NOT PMS/CI  
L9 1 S ISETHIONIC ACID/CN  
L10 229 S L8 NOT N/ELS  
L11 46 S L10 AND 4/O  
L12 41 S L11 NOT X/ELS  
L13 43 S L11 NOT FE/ELS  
L14 38 S L12 NOT FE/ELS  
L15 36 S L14 NOT TOLYL ESTER  
L16 30 S L15 NOT PHENYL ESTER  
L17 27 S L16 NOT XYLYL ESTER

FILE 'CAPLUS' ENTERED AT 08:26:52 ON 18 MAY 2004  
L18 8 S L17/PREP

FILE 'BEILSTEIN' ENTERED AT 08:32:55 ON 18 MAY 2004  
L19 35 S L5 FULL  
L20 23 S L19 NOT ESTER  
L21 23 S L20 NOT PHENYL?  
L22 STRUCTURE UPLOADED

FILE 'REGISTRY' ENTERED AT 08:43:46 ON 18 MAY 2004  
L23 14 S L22

=> s l22 full  
FULL SEARCH INITIATED 08:44:30 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 31995 TO ITERATE

100.0% PROCESSED 31995 ITERATIONS  
SEARCH TIME: 00.00.02

480 ANSWERS

L24 480 SEA SSS FUL L22

=> d his

(FILE 'HOME' ENTERED AT 07:45:54 ON 18 MAY 2004)

FILE 'REGISTRY' ENTERED AT 07:46:04 ON 18 MAY 2004  
L1 8 S BOROXINE  
L2 0 S BIS AZINYL  
L3 6 S AZINYL  
L4 285790 S 1-6  
L5 STRUCTURE UPLOADED  
L6 14 S L5  
L7 480 S L5 FULL  
L8 279 S L7 NOT PMS/CI  
L9 1 S ISETHIONIC ACID/CN  
L10 229 S L8 NOT N/ELS  
L11 46 S L10 AND 4/O  
L12 41 S L11 NOT X/ELS  
L13 43 S L11 NOT FE/ELS  
L14 38 S L12 NOT FE/ELS  
L15 36 S L14 NOT TOLYL ESTER  
L16 30 S L15 NOT PHENYL ESTER  
L17 27 S L16 NOT XYLYL ESTER

FILE 'CAPLUS' ENTERED AT 08:26:52 ON 18 MAY 2004  
L18 8 S L17/PREP

FILE 'BEILSTEIN' ENTERED AT 08:32:55 ON 18 MAY 2004  
L19 35 S L5 FULL



L20 23 S L19 NOT ESTER  
L21 23 S L20 NOT PHENYL?  
L22 STRUCTURE UPLOADED

FILE 'REGISTRY' ENTERED AT 08:43:46 ON 18 MAY 2004

L23 14 S L22  
L24 480 S L22 FULL

=> s 15 not 124  
L24 MAY NOT BE USED HERE  
The L-number entered was not created by a STRUCTURE or SCREEN command.

=> s 17 not 124  
L25 0 L7 NOT L24

=> s 124 not x/els  
7410517 X/ELS  
L26 433 L24 NOT X/ELS

=> s 126 not ester  
4115867 ESTER  
4892 ESTERS  
4120529 ESTER  
(ESTER OR ESTERS)  
L27 357 L26 NOT ESTER

=> s 127 not pms/ci  
1010338 PMS/CI  
L28 202 L27 NOT PMS/CI

=> d scan

L28 202 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
IN Ethanesulfonic acid, 2-(tetradecyloxy) - (9CI)  
MF C16 H34 O4 S

$\text{Me}-(\text{CH}_2)_{13}-\text{O}-\text{CH}_2-\text{CH}_2-\text{SO}_3\text{H}$

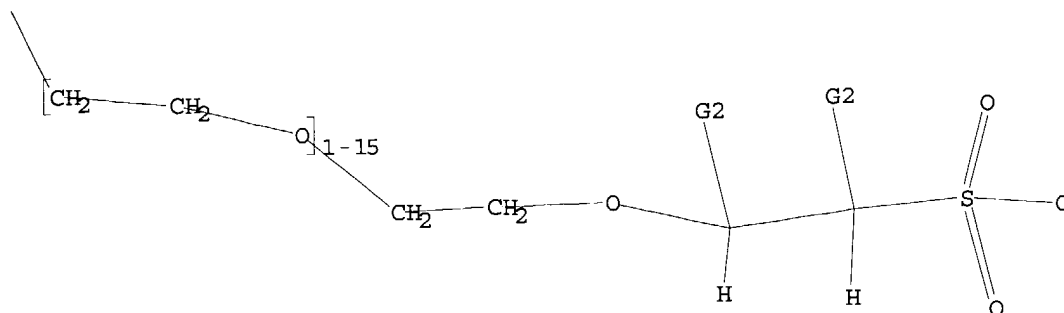
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=>  
Uploading C:\Program Files\Stnexp\Queries\10690467.str

L29 STRUCTURE UPLOADED

=> d  
L29 HAS NO ANSWERS  
L29 STR



G1 C,O,Cb

G2 Me,Et,n-Pr,i-Pr,H

Structure attributes must be viewed using STN Express query preparation.

=> s l29

SAMPLE SEARCH INITIATED 08:47:06 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 536 TO ITERATE

100.0% PROCESSED 536 ITERATIONS 3 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 9331 TO 12109  
PROJECTED ANSWERS: 3 TO 163

L30 3 SEA SSS SAM L29

=> s l29 full

FULL SEARCH INITIATED 08:47:12 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 10376 TO ITERATE

100.0% PROCESSED 10376 ITERATIONS 53 ANSWERS  
SEARCH TIME: 00.00.01

L31 53 SEA SSS FUL L29

=> s l31 not pms/ci  
1010338 PMS/CI

L32 36 L31 NOT PMS/CI

=> s l32 not x/els  
7410517 X/ELS

L33 36 L32 NOT X/ELS

=> s l33 not ester  
4115867 ESTER  
4892 ESTERS  
4120529 ESTER  
(ESTER OR ESTERS)

L34 35 L33 NOT ESTER

=> d scna

'SCNA' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual

fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

REG - RN  
SAM - Index Name, MF, and structure - no RN  
FIDE - All substance data, except sequence data  
IDE - FIDE, but only 50 names  
SQIDE - IDE, plus sequence data  
SQIDE3 - Same as SQIDE, but 3-letter amino acid codes are used  
SQD - Protein sequence data, includes RN  
SQD3 - Same as SQD, but 3-letter amino acid codes are used  
SQN - Protein sequence name information, includes RN  
  
CALC - Table of calculated properties  
EPROP - Table of experimental properties  
PROP - EPROP and CALC

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

ABS -- Abstract  
APPS -- Application and Priority Information  
BIB -- CA Accession Number, plus Bibliographic Data  
CAN -- CA Accession Number  
CBIB -- CA Accession Number, plus Bibliographic Data (compressed)  
IND -- Index Data  
IPC -- International Patent Classification  
PATS -- PI, SO  
STD -- BIB, IPC, and NCL

IABS --ABS, indented, with text labels  
IBIB -- BIB, indented, with text labels  
ISTD -- STD format, indented

OBIB ----- AN, plus Bibliographic Data (original)  
OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations  
SIBIB ----- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.

The MAX format is the same as ALL.

The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

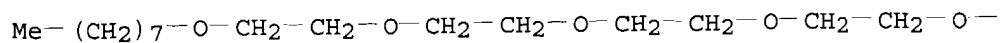
For additional information, please consult the following help messages:

HELP DFIELDS -- To see a complete list of individual display fields.  
HELP FORMATS -- To see detailed descriptions of the predefined formats.  
ENTER DISPLAY FORMAT (IDE):end

=> d scan

L34 35 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
IN 3,6,9,12,15,18,21-Heptaoxanonacosane-1-sulfonic acid, 1(or 2)-methyl  
deriv., sodium salt (9CI)  
MF C23 H48 O10 S . Na  
CI IDS

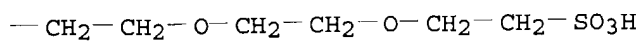
PAGE 1-A



D1-Me

● Na

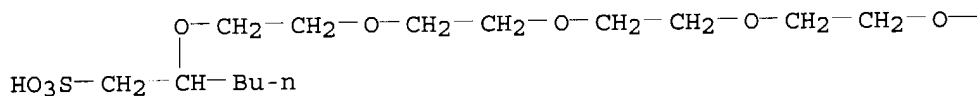
PAGE 1-B



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

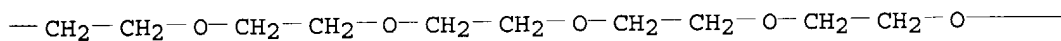
L34 35 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
IN 3,6,9,12,15,18,21,24,27,30,33-Undecaioxahenpentacontane-1-sulfonic acid,  
2-butyl-, sodium salt (8CI)  
MF C44 H90 O14 S . Na

PAGE 1-A

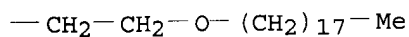


● Na

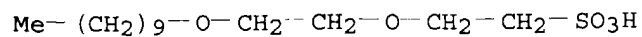
PAGE 1-B



PAGE 1-C

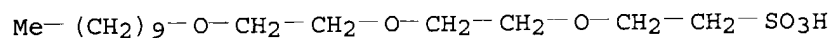


L34 35 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
IN Ethanesulfonic acid, 2-[2-(decyloxy)ethoxy]-, sodium salt (9CI)  
MF C14 H30 O5 S . Na

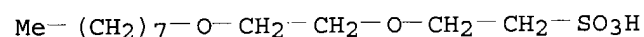


● Na

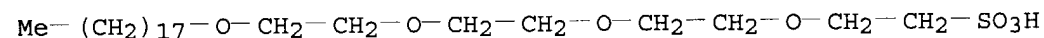
L34 35 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
IN Ethanesulfonic acid, 2-[2-[2-(decyloxy)ethoxy]ethoxy]-, sodium salt (9CI)  
MF C16 H34 O6 S . Na



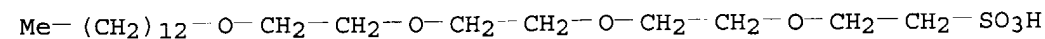
L34 35 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
IN Ethanesulfonic acid, 2-[2-(octyloxy)ethoxy]-, sodium salt (9CI)  
MF C12 H26 O5 S . Na



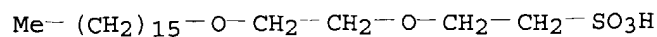
L34 35 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
IN 3,6,9,12-Tetraoxatriacontane-1-sulfonic acid, ammonium salt (9CI)  
MF C26 H54 O7 S . H3 N



L34 35 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
IN 3,6,9,12-Tetraoxapentacosane-1-sulfonic acid, sodium salt (9CI)  
MF C21 H44 O7 S . Na

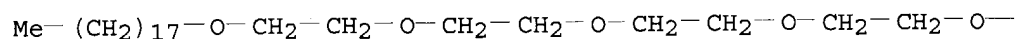


L34 35 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
IN Ethanesulfonic acid, 2-[2-(hexadecyloxy)ethoxy]-, sodium salt (9CI)  
MF C20 H42 O5 S . Na

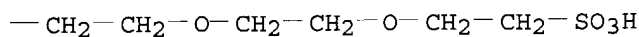


L34 35 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
 IN 3,6,9,12,15,18,21-Heptaosanatriacotane-1-sulfonic acid, sodium salt  
 (9CI)  
 MF C32 H66 O10 S . Na

PAGE 1-A

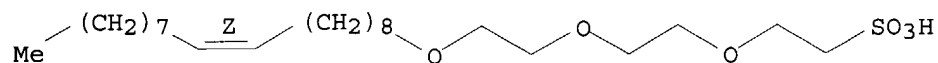


PAGE 1-B



L34 35 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
 IN Ethanesulfonic acid, 2-[2-[2-(9-octadecenyloxy)ethoxy]ethoxy]-, sodium  
 salt, (Z)- (9CI)  
 MF C24 H48 O6 S . Na

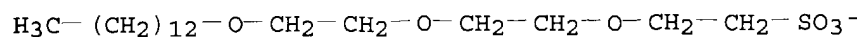
Double bond geometry as shown.



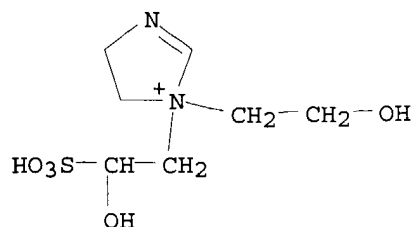
L34 35 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
 IN 1H-Imidazolium, 4,5-dihydro-1-(2-hydroxyethyl)-1-(2-hydroxy-2-sulfoethyl)-  
 , salt with 2-[2-[2-(tridecyloxy)ethoxy]ethoxy]ethanesulfonic acid (1:1),  
 monosodium salt (9CI)  
 MF C19 H39 O6 S . C7 H15 N2 O5 S . Na

CM 1

CM 2



CM 3



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s l34 not imidazol?

700679 IMIDAZOL?

L35 33 L34 NOT IMIDAZOL?

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

343.95

1086.55

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

0.00

-5.54

FILE 'CAPLUS' ENTERED AT 08:48:11 ON 18 MAY 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE COVERS 1907 - 18 May 2004 VOL 140 ISS 21

FILE LAST UPDATED: 17 May 2004 (20040517/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l35/prep

45 L35

3148620 PREP/RL

L36

6 L35/PREP

(L35 (L) PREP/RL)

=> d ibib abs hitstr 1-6

L36 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1993:474954 CAPLUS

DOCUMENT NUMBER: 119:74954

TITLE: Aqueous dispersions of rosin for paper sizes

INVENTOR(S): Shinoda, Junichi; Takayasu, Senju

PATENT ASSIGNEE(S): Lion Corp, Japan

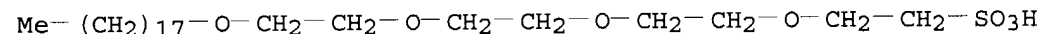
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05033290	A2	19930209	JP 1991-208547	19910725
PRIORITY APPLN. INFO.:			JP 1991-208547	19910725
OTHER SOURCE(S): MARPAT 119:74954				

AB Title sizes, storage-stable and low-foaming with good sizing effects, comprise rosin and  $R(C_6H_4)mO(CH_2CH_2O)_nCH_2CH_2SO_3M$  (I; R = C8-22 linear or branched alkyl or alkenyl; C6H4 = phenylene; M = alkali metal, NH<sub>4</sub>; m = 0-1; n = 1-5) as dispersant. Thus, an aqueous dispersion with 50% solids of maleated tall-oil rosin and I (R = C9H19, m = 1, n = 2, M = Na) (II) formed no precipitate when stored at 25° for 1 mo, paper made from a slurry of hardwood kraft pulp containing 0.2% of the size showed Stockigt sizing degree 8 s at 20° and 11 s at 50°, and a pulp slurry containing 0.1% of the size showed foaming 5 mL after 5 min and 15 mL after 10 min vs. 4 s, 7 s, 50 mL, and 85 mL, resp., for a control containing ethoxylated nonylphenol sulfate ester Na salt in place of II.

IT **148782-40-5P**  
 RL: IMF (Industrial manufacture); **PREP (Preparation)**  
 (dispersant, preparation of, rosin sizes containing, storage-stable, low-foaming, with good sizing effect, for paper)

RN 148782-40-5 CAPLUS  
 CN 3,6,9,12-Tetraoxatriacontane-1-sulfonic acid, ammonium salt (9CI) (CA INDEX NAME)



L36 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1991:515348 CAPLUS  
 DOCUMENT NUMBER: 115:115348  
 TITLE: Preparation of polyether sulfonates stable in aqueous alcohols of low temperature  
 INVENTOR(S): Greif, Norbert; Oppenlaender, Knut  
 PATENT ASSIGNEE(S): BASF A.-G., Germany  
 SOURCE: Eur. Pat. Appl., 5 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 419954	A1	19910403	EP 1990-117618	19900913
EP 419954	B1	19921202		
R: DE, FR, GB, SE				
DE 3931840	A1	19910404	DE 1989-3931840	19890923
NO 9004131	A	19910325	NO 1990-4131	19900921
NO 171062	B	19921012		
NO 171062	C	19930120		



PRIORITY APPLN. INFO.:

DE 1989-3931840

19890923

OTHER SOURCE(S):

MARPAT 115:115348

AB The title solns., useful as surfactants in tertiary oil recovery, have the structure  $R(OZ)_nSO_3M$  [ $M$  = alkali metal,  $NH_4$ , protonated (hydroxy)alkylamine;  $R$  = alk(en)yl, alkylphenyl;  $Z$  = C2-4 1,2-alkylene;  $n$  = 1-15] and are prepared by the reaction of  $R(OZ)_nX$  ( $X$  = Cl, Br) with aqueous alkali metal or ammonium sulfites. Heating  $C_{12}H_{25}C_6H_4(OCH_2CH_2)_3Cl$  with aqueous  $Na_2SO_3$  at  $160^\circ/3$  bar gave a 27% aqueous solution of  $C_{12}H_{25}C_6H_4(OCH_2CH_2)_3SO_3Na$  containing 6.4%  $NaCl$ . Adding 194 g tech. pentanol to 500 g this solution at  $95-98^\circ$  with strong stirring gave 556 g organic phase containing 2.4%  $NaCl$  which was diluted with  $H_2O$  to 30% surfactant to give a solution stable to storage at  $5^\circ$ .

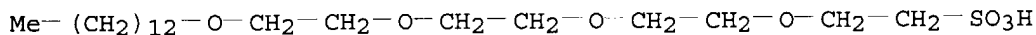
IT 135865-25-7P

RL: PREP (Preparation)

(cold-stable solns. in aqueous alcs., manufacture of)

RN 135865-25-7 CAPLUS

CN 3,6,9,12-Tetraoxapentacosane-1-sulfonic acid, sodium salt (9CI) (CA INDEX NAME)



● Na

L36 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1989:442632 CAPLUS

DOCUMENT NUMBER: 111:42632

TITLE: Surfactant combinations and enhanced oil recovery method employing same

INVENTOR(S): Kalpakci, Bayram; Jeans, Yvonne

PATENT ASSIGNEE(S): Standard Oil Co., USA

SOURCE: U.S., 10 pp.  
CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4811788	A	19890314	US 1986-829431	19860213
PRIORITY APPLN. INFO.:			US 1986-829431	19860213

AB A method of recovering oil from a subterranean formation comprises injection into the formation an aqueous composition containing a surface-active agent of (A)  $(H_{13}C_6)(H_{17}C_8)CHCH_2(OCH_2CH_2)_2SO_3-Na^+$  and (B)  $H_{41}C_{20}(OCH_2CH_2)_3SO_3-Na^+$  at 0.02-7:1 B:A mol ratio. This method is especially suitable for use with formations where the surfactants used are exposed to temps. in the range of  $15-120^\circ$  and above, high pressures, high concns. of divalent metal ions and high salinities.

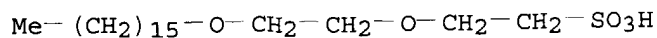
IT 121594-42-1P

RL: PREP (Preparation)

(intermediate, preparation of, for preparation of hexyldecyloxyethoxyethoxyethane sulfonate surfactant, in enhanced petroleum recovery)

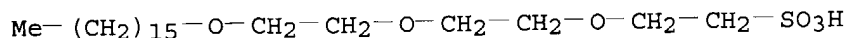
RN 121594-42-1 CAPLUS

CN Ethanesulfonic acid, 2-[2-(hexadecyloxy)ethoxy]-, sodium salt (9CI) (CA INDEX NAME)



● Na

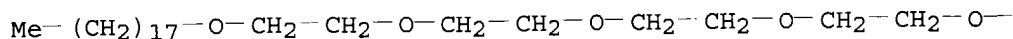
IT 121608-25-1P  
 RL: PREP (Preparation)  
 (preparation of, surfactants containing, for enhanced petroleum recovery, by waterflooding)  
 RN 121608-25-1 CAPLUS  
 CN Ethanesulfonic acid, 2-[2-[2-(hexadecyloxy)ethoxy]ethoxy]-, sodium salt (9CI) (CA INDEX NAME)



● Na

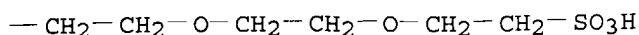
L36 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1987:121857 CAPLUS  
 DOCUMENT NUMBER: 106:121857  
 TITLE: Purification of ethoxylated anionic surfactants by preparative high-performance liquid chromatography  
 AUTHOR(S): Hodgson, Philip K. G.; Stewart, Nevin J.  
 CORPORATE SOURCE: Res. Cent., British Pet. Co., Sunbury-on-Thames/Middlesex, TW16 7LN, UK  
 SOURCE: Journal of Chromatography (1987), 387, 546-50  
 CODEN: JOCRAM; ISSN: 0021-9673  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB C18H37C6H4(OCH2CH2)7SO3Na [107317-25-9] was purified by the title reversed-phase method using 4:1 iso-PrOH-water containing 0.2% H3PO4 as an anal. system or 35:30:35 THF-MeOH-water as a preparative system. Nonionic precursor and anionic byproducts were removed, giving 100% surfactant from 10-20 g batches of crude product in <0.5 h.  
 IT 107317-25-9P  
 RL: PUR (Purification or recovery); PREP (Preparation)  
 (purification of, by reversed-phase preparative high-performance liquid chromatog.)  
 RN 107317-25-9 CAPLUS  
 CN 3,6,9,12,15,18,21-Heptaioxanonatriacantane-1-sulfonic acid, sodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



● Na

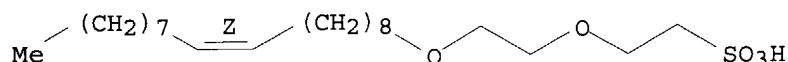
PAGE 1-B



L36 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1984:474769 CAPLUS  
DOCUMENT NUMBER: 101:74769  
TITLE: Synthesis and performance of linear monoisomeric ethylene oxide sulfonate surfactants  
AUTHOR(S): Carmona, I.; Schechter, R. S.; Wade, W. H.; Weerasooriya, U.; Weerasooriya, V.  
CORPORATE SOURCE: Dep. Chem., Univ. Texas, Austin, TX, 78712, USA  
SOURCE: Journal of Dispersion Science and Technology (1983), 4(4), 361-70  
CODEN: JDTEDS; ISSN: 0193-2691  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
AB The reaction of BrCH<sub>2</sub>CH<sub>2</sub>SO<sub>3</sub>Na [4263-52-9] with Na alcoholates gave 5 surfactants ROCH<sub>2</sub>CH<sub>2</sub>SO<sub>3</sub>Na with R = octadecyl, oleyl, 2-oleyloxyethyl, 2-(2-oleyloxyethoxy)ethyl, and eicosyl, resp. The surfactants produced Winsor III systems (microemulsions) with suitable alkane oil phases and the appropriate salt and cosolvent concns.  
IT 91362-47-9P 91362-48-0P  
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and surfactant properties of)  
RN 91362-47-9 CAPLUS  
CN Ethanesulfonic acid, 2-[2-(9-octadecenylloxy)ethoxy]-, sodium salt, (Z)-(9CI) (CA INDEX NAME)

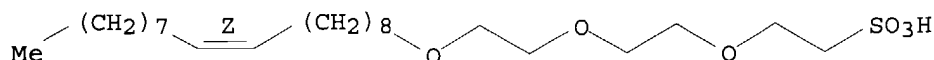
Double bond geometry as shown.



● Na

RN 91362-48-0 CAPLUS  
CN Ethanesulfonic acid, 2-[2-[2-(9-octadecenylloxy)ethoxy]ethoxy]-, sodium salt, (Z)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.



● Na

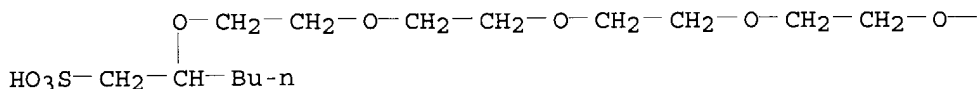
L36 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1967:432482 CAPLUS  
DOCUMENT NUMBER: 67:32482  
TITLE: β-Alkyl-β'-alkoxyisethionates  
INVENTOR(S): Schenck, Leslie M.; Nunn, Leslie G., Jr.  
PATENT ASSIGNEE(S): General Aniline and Film Corp.  
SOURCE: Ger., 4 pp.  
CODEN: GWXXAW  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

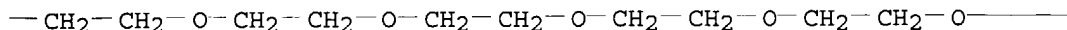
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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	DE 1234708		19670223		
PRIORITY APPLN. INFO.:			US		19601122
GI	For diagram(s), see printed CA Issue.				
AB	<p>Title compds. R(OCHR2CH2)nOCHR1CH2SO3X (I) and II, are surface active agents and are prepared from R1CH:CHSO3X or HOCHR1CH2SO3X, and R(OCHR2CH2)nOH or III in NaOH or KOH at pH 9.7-11.7 and 140-220° for 2-6.5 hrs. At &gt;180° the reaction is carried out in a stainless steel autoclave. Thus, C13H27OH 200, HOCHMeCH2SO3Na (IV) 162, and 50% aqueous NaOH 6 parts was heated 1 hr. at 170°, then 40 min. at 200°. The mixture was separated and cooled to give 20% Na β-(tridecyloxy)propanesulfonate (recrystd. from MeOH). Similarly, the following were prepared: Na β-(ethylhexyloxy)propanesulfonate, K β-ethoxypropanesulfonate, Na β-(docosyloxy)butanesulfonate, C18H37(OCH2CH2)10OCHBuCH2SO3Na, and Na β-(tridecyloxy)propanesulfonate. A mixture of 204 parts reaction mixture of 1 mole nonylphenol with 4 moles ethylene oxide, 81 parts IV, and 6 parts aqueous 50% NaOH was heated to 180° in 40 min. and maintained 2 hrs. at 180° to give 9% II (R1 = Me, R2, R3 and R4 = H, R5 = C9H19, X = Na, m = 4) which was isolated from unreacted alc. with a strong basic anionic ion exchange resin. Similarly, the following were prepared: EtOCH2CH2OCHMeCH2SO3Na, Na β-(nonylphenoxy)ethoxypentanesulfonate. Also prepared were the following II (R1, R2, R3, R4, R5, X, and m given): Me, Me, H, H, H, Na, 1; Me, Et, 2-Me, H, H, Na, 1; Me, H, 2-C9H19, 4-C9H19, H, Na, 20; Me, H, 2-Bu, 4-Bu, 6-Bu, Na, 10; Me, H, H, 4-C8H17, H, Na, 10; Me, H, 2-C12H25, 4-C12H25, 6-C12H25, Na, 10; Me, H, H, 4-C18H37, H, Na, 10.</p>				
IT	<p><b>14817-51-7P</b>            RL: SPN (Synthetic preparation); <b>PREP (Preparation)</b>            (preparation of)</p>				
RN	14817-51-7 CAPLUS				
CN	3,6,9,12,15,18,21,24,27,30,33-Undecaioxahenpentacontane-1-sulfonic acid, 2-butyl-, sodium salt (8CI) (CA INDEX NAME)				

PAGE 1-A

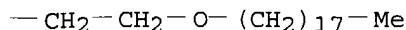


● Na

PAGE 1-B



PAGE 1-C



=> d his

(FILE 'HOME' ENTERED AT 07:45:54 ON 18 MAY 2004)

FILE 'REGISTRY' ENTERED AT 07:46:04 ON 18 MAY 2004

L1 8 S BOROXINE  
L2 0 S BIS AZINYL  
L3 6 S AZINYL  
L4 285790 S 1-6  
L5 STRUCTURE UPLOADED  
L6 14 S L5  
L7 480 S L5 FULL  
L8 279 S L7 NOT PMS/CI  
L9 1 S ISETHIONIC ACID/CN  
L10 229 S L8 NOT N/ELS  
L11 46 S L10 AND 4/O  
L12 41 S L11 NOT X/ELS  
L13 43 S L11 NOT FE/ELS  
L14 38 S L12 NOT FE/ELS  
L15 36 S L14 NOT TOLYL ESTER  
L16 30 S L15 NOT PHENYL ESTER  
L17 27 S L16 NOT XYLYL ESTER

FILE 'CAPLUS' ENTERED AT 08:26:52 ON 18 MAY 2004

L18 8 S L17/PREP

FILE 'BEILSTEIN' ENTERED AT 08:32:55 ON 18 MAY 2004

L19 35 S L5 FULL  
L20 23 S L19 NOT ESTER  
L21 23 S L20 NOT PHENYL?  
L22 STRUCTURE UPLOADED

FILE 'REGISTRY' ENTERED AT 08:43:46 ON 18 MAY 2004

L23 14 S L22  
L24 480 S L22 FULL  
L25 0 S L7 NOT L24  
L26 433 S L24 NOT X/ELS  
L27 357 S L26 NOT ESTER  
L28 202 S L27 NOT PMS/CI  
L29 STRUCTURE UPLOADED  
L30 3 S L29  
L31 53 S L29 FULL  
L32 36 S L31 NOT PMS/CI  
L33 36 S L32 NOT X/ELS  
L34 35 S L33 NOT ESTER  
L35 33 S L34 NOT IMIDAZOL?

FILE 'CAPLUS' ENTERED AT 08:48:11 ON 18 MAY 2004

L36 6 S L35/PREP

=> file beilstein  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
32.98	1119.53

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-4.16	-9.70

CA SUBSCRIBER PRICE

FILE 'BEILSTEIN' ENTERED AT 08:51:33 ON 18 MAY 2004  
COPYRIGHT (c) 2004 Beilstein-Institut zur Foerderung der Chemischen Wissenschaften  
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FILE RELOADED ON OCTOBER 20, 2002  
FILE LAST UPDATED ON MARCH 30, 2004

FILE COVERS 1771 TO 2003.

\*\*\* FILE CONTAINS 8,932,479 SUBSTANCES \*\*\*

>>> PLEASE NOTE: Reaction data and substance data are stored in separate documents and can not be searched together in one query.

Reaction data for BEILSTEIN compounds may be displayed immediately with the display codes PRE (preparations) and REA (reactions). A substance answer set retrieved after the search for a chemical name, a molecular formula or a structure search for example can be restricted to compounds with available reaction information by concatenation with PRE/FA, REA/FA or more general with RX/FA. The BEILSTEIN Registry Number (BRN) is the link between a BEILSTEIN compound and belonging reactions. For more detailed reaction searches BRNs can be selected from substance answer sets and searched in the next step as reaction partner BRNs - Reactant (RX.RBRN) or Product BRN (RX.PBRN). After a search for reaction details substance documents associated with reactants or products may be retrieved by searching RX.PBRNs or RX.RBRNs as BRNs. <<<

>>> FOR SEARCHING PREPARATIONS SEE HELP PRE <<<

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*****
* PLEASE NOTE THAT THERE ARE NO FORMATS FREE OF COST.          *
* SET NOTICE FEATURE: THE COST ESTIMATES CALCULATED FOR SET NOTICE *
* ARE BASED ON THE HIGHEST PRICE CATEGORY. THEREFORE; THESE    *
* ESTIMATES MAY NOT REFLECT THE ACTUAL COSTS.                  *
* FOR PRICE INFORMATION SEE HELP COST                           *
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>>> FOR SEARCHING PREPARATIONS SEE HELP PRE <<<

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* ESTIMATES MAY NOT REFLECT THE ACTUAL COSTS. *
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=> s l35

L37 0 L35

=> s l29 full

FULL SEARCH INITIATED 08:52:03 FILE 'BEILSTEIN'

FULL SCREEN SEARCH COMPLETED - 3248 TO ITERATE

100.0% PROCESSED 3248 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.14

L38 0 SEA SSS FUL L29

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